

# **Master Minimum Equipment List**

Revision: 4 Date: February 20, 2013

Learjet, Inc

45

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#### U.S. DEPARTMENT OF TRANSPORTATION MASTER MINIMUM EQUIPMENT LIST FEDERAL AVIATION ADMINISTRATION AIRCRAFT: **REVISION NO: 4** PAGE NO: LEARJET 45 DATE: 02/20/2013 Ι TABLE OF CONTENTS SYSTEM NO. SYSTEM PAGE NO. Cover Table of Contents Log of Revisions II, III Control Page IV, V, VI Highlights of Change VII, VIII, IX Highlights of Change X, XI, XII Highlights of Change XIII. XIV. XV Highlights of Change XVI. XVII **Definitions** XVIII Preamble XIX Regulations Reference XX XXI, XXII, XXIII Guidelines for (O) & (M) Procedures Guidelines for (O) & (M) Procedures XXIV, XXV, XXVI Guidelines for (O) & (M) Procedures XXVII. XXVIII Air Conditioning 21-1, 2, 3 21 22-1, 2 22 Autopilot 23 Communications 23-1 THRU 7 24 Electrical 24-1, 2 25 25-1 THRU 8 Equipment / Furnishings 26 Fire Protection 26-1, 2 27 Flight Controls 27-1 28 Fuel 28-1, 2 30 Ice & Rain Protection 30-1 THRU 5 31 Indicating / Recording Systems 31-1 THRU 6 32 Landing Gear 32-1 33 Lights 33-1 THRU 7 34 Navigation 34-1 THRU 17 35 Oxygen 35-1, 2 36 **Pneumatics** 36-1 38 Water / Waste 38-1 46-1, 2 46 New Technology 49 49-1 Airborne Auxiliary 52 Doors 52-1, 2, 3 73 Engine / Fuel Controls 73-1 74 74-1 Ignition

76-1

77-1

78-1

76

77 78 **Engine Controls** 

Exhaust

**Engine Indicating** 

#### U.S. DEPARTMENT OF TRANSPORTATION

#### MASTER MINIMUM EQUIPMENT LIST

#### FEDERAL AVIATION ADMINISTRATION

**REVISION NO: 4** PAGE NO: AIRCRAFT:

**LEARJET 45** DATE: 02/20/2013 II Log of Revisions Rev No. Date Page Numbers Initials Oa 03/12/2001 HIGHLIGHTS OF REV., DEFINITIONS Oa 03/12/2001 **GUIDELINES** Oa 03/12/2001 22-1, 25-2, 30-3, 33-2, 34-1 Oa 34-2, 34-3, 34-4, 34-5, 34-6 03/12/2001 Oa 34-7, 34-8, 49-1 03/12/2001 1 12/10/2001 HIGHLIGHTS OF REV., DEFINITIONS 1 12/10/2001 **GUIDELINES** 1 12/10/2001 21-1, 21-2, 21-3, 22-1, 23-1 1 12/10/2001 23-2, 23-3, 23-4, 24-1, 25-1 1 25-2, 25-3, 25-4, 25-5, 26-1 12/10/2001 1 12/10/2001 27-1, 28-1, 30-1, 30-2, 30-3 1 12/10/2001 31-1, 31-2, 32-1, 33-1, 33-2 1 33-3, 33-4, 33-5, 34-1, 34-2 12/10/2001 1 12/10/2001 34-3, 34-4, 34-5, 34-6, 34-7 1 34-8, 34-9, 34-10, 34-11, 35-1 12/10/2001 35-2, 36-1, 49-1, 52-1, 52-2 1 12/10/2001 73-1, 74-1, 76-1, 77-1, 78-1 1 12/10/2001 HIGHLIGHTS OF REV., DEFINITIONS 1a 03/30/2004 1a 03/30/2004 **GUIDELINES** 1a 03/30/2004 21-2, 21-3, 22-1, 35-1, 35-2 1b 03/11/2005 HIGHLIGHTS OF REV., DEFINITIONS 1b 03/11/2005 **GUIDELINES** 1b 21-2, 22-1, 22-2, 28-1, 34-1 03/11/2005 34-2, 34-3, 34-4, 34-5, 34-6 1b 03/11/2005 1b 03/11/2005 34-7, 34-8, 34-9, 34-10, 34-11 1b 03/11/2005 34-12, 35-1, 35-2 HIGHLIGHTS OF REV., DEFINITIONS 2 12/07/2005 2 12/07/2005 GUIDELINES 2 12/07/2005 21-1, 21-2, 21-3, 22-1, 22-2 2 12/07/2005 23-1, 23-2, 23-3, 23-4, 23-5 2 12/07/2005 24-1, 25-1, 25-2, 25-3, 25-4 2 25-5, 25-6, 25-7, 26-1, 27-1 12/07/2005 2 28-1, 30-1, 30-2, 30-3, 31-1 12/07/2005 2 31-2, 31-3, 32-1, 33-1, 33-2 12/07/2005 2 12/07/2005 33-3, 33-4, 33-5, 34-1, 34-2 2 12/07/2005 34-3, 34-4, 34-5, 34-6, 34-7 2 34-8, 34-9, 34-10, 34-11, 34-12 12/07/2005 2 34-13, 34-14, 34-15, 34-16, 35-1 12/07/2005 2 12/07/2005 35-2, 36-1, 38-1, 38-2, 49-1 2 52-1, 52-2, 73-1, 74-1, 76-1 12/07/2005 2 12/07/2005 78-1

## U.S. DEPARTMENT OF TRANSPORTATION

#### MASTER MINIMUM EQUIPMENT LIST

### FEDERAL AVIATION ADMINISTRATION

AIRCRAFT: REVISION NO: 4 PAGE NO: LEARJET 45 DATE: 02/20/2013 III

Log of Revisions

Rev No.	Date	Page Numbers	Initials
		9	
3	02/11/2008	COVER, TABLE OF CONTENTS	
3	02/11/2008	LOG OF REV., CONTROL PAGE	
3	02/11/2008	HIGHLIGHTS OF REV., DEFINITIONS	
3	02/11/2008	GUIDELINES (O & M)	
3	02/11/2008	21-3, 22-1, 22-2, 23-1, 23-2	
3	02/11/2008	23-3, 23-4, 23-5, 23-6, 24-1	
3	02/11/2008	25-1, 25-2, 25-3, 25-4, 25-5	
3	02/11/2008	25-6, 25-9, 25-10, 26-2, 30-1	
3	02/11/2008	30-2, 30-3, 30-4, 31-1, 31-2	
3	02/11/2008	33-3, 34-1, 34-2, 34-3, 34-4	
3	02/11/2008	34-5, 34-8, 34-9, 34-10, 34-11	
3	02/11/2008	34-12, 34-13, 34-14, 34-15	
3	02/11/2008	36-1, 38-1, 38-2, 46-1, 46-2	
3	02/11/2008	49-1, 73-1, 78-1	
3a	10/20/2008	COVER PAGE, TABLE OF CONTENTS	
3a	10/20/2008	LOG OF REVISIONS, CONTROL PAGE	
3a	10/20/2008	HIGHLIGHTS OF CHANGE	
3a	10/20/2008	GUIDELINES (O & M)	
3a	10/20/2008	25-3, 26-1, 33-3, 33-5	
3a	10/20/2008	34-12, 52-2, 78-1	
4	02/20/2013	ALL PAGES	

# U.S. DEPARTMENT OF TRANSPORTATION MASTER MINIMUM EQUIPMENT LIST FEDERAL AVIATION ADMINISTRATION

AIRCRAFT: **REVISION NO: 4** PAGE NO: **LEARJET 45** DATE: 02/20/2013 IV Control Page System Page No. Rev. No. Current Date Cover Page 4 02/20/2013 ı 4 **Table of Contents** 02/20/2013 Log of Revisions Ш 4 02/20/2013 Ш 4 02/20/2013 **Control Page** IV 4 02/20/2013 V 4 02/20/2013 VΙ 4 02/20/2013 Highlights of Change VII 4 02/20/2013 VIII 4 02/20/2013 IX 4 02/20/2013 Χ 4 02/20/2013 ΧI 4 02/20/2013 XII 4 02/20/2013 XII 4 02/20/2013 XIV 4 02/20/2013 ΧV 4 02/20/2013 XVI 4 02/20/2013 4 XVII 02/20/2013 **Definitions** XVIII 4 02/20/2013 Preamble XIX 4 02/20/2013 Regulations Reference XX 4 02/20/2013 Guidelines for (O) & (M) Procedures XXI 4 02/20/2013 4 XXII 02/20/2013 XXIII 4 02/20/2013 XXIV 4 02/20/2013 4 XXV02/20/2013 IVXX 4 02/20/2013 **XXVII** 4 02/20/2013 XXVIII 4 02/20/2013 21 21-1 4 02/20/2013 4 21-2 02/20/2013 4 21-3 02/20/2013 22 22-1 4 02/20/2013 22-2 4 02/20/2013 23 4 23-1 02/20/2013 23-2 4 02/20/2013 4 23-3 02/20/2013 23-4 4 02/20/2013 23-5 4 02/20/2013 23-6 4 02/20/2013 4 23-7 02/20/2013

#### U.S. DEPARTMENT OF TRANSPORTATION MASTER MINIMUM EQUIPMENT LIST FEDERAL AVIATION ADMINISTRATION **REVISION NO: 4** AIRCRAFT: PAGE NO: **LEARJET 45** DATE: 02/20/2013 V Control Page System Page No. Rev. No. **Current Date** 24 24-1 4 02/20/2013 4 24-2 02/20/2013 25 25-1 4 02/20/2013 25-2 4 02/20/2013 25-3 4 02/20/2013 25-4 4 02/20/2013 25-5 4 02/20/2013 4 25-6 02/20/2013 25-7 4 02/20/2013 25-8 4 02/20/2013 4 26 26-1 02/20/2013 4 26-2 02/20/2013 27 4 27-1 02/20/2013 28 28-1 4 02/20/2013 28-2 4 02/20/2013 30 30-1 4 02/20/2013 30-2 4 02/20/2013 4 30-3 02/20/2013 4 30-4 02/20/2013 30-5 4 02/20/2013 31 4 31-1 02/20/2013 31-2 4 02/20/2013 4 31-3 02/20/2013 31-4 4 02/20/2013 31-5 4 02/20/2013 4 31-6 02/20/2013 32 4 32-1 02/20/2013 33 4 33-1 02/20/2013 4 33-2 02/20/2013 33-3 4 02/20/2013 4 33-4 02/20/2013

33-5

33-6

33-7

4

4

4

02/20/2013

02/20/2013

02/20/2013

U.S. DEPARTMENT OF TRANSPORTATION						
MASTER MINIMUM EQUIPMENT LIST						
FEDERAL AVIATION ADMINISTRATION						
AIRCRAFT:						
LEARJET 45	DAT	E: 02/20/2013			VI	
C	ontro	l Page			·	
System		Page No.	Rev	. No.	Current Date	
34		34-1	4		02/20/2013	
		34-2	4		02/20/2013	
		34-3	4		02/20/2013	
		34-4	4		02/20/2013	
		34-5	4		02/20/2013	
		34-6	4		02/20/2013	
		34-7	4		02/20/2013	
		34-8	4		02/20/2013	
		34-9	4		02/20/2013	
		34-10	4		02/20/2013	
		34-11	4		02/20/2013	
		34-12	4		02/20/2013	
		34-13	4		02/20/2013	
		34-14	4		02/20/2013	
		34-15	4		02/20/2013	
		34-16	4		02/20/2013	
		34-17	4		02/20/2013	
35		35-1	4		02/20/2013	
		35-2	4		02/20/2013	
36		36-1	4		02/20/2013	
38		38-1	4		02/20/2013	
46		46-1	4		02/20/2013	
		46-2	4		02/20/2013	
49		49-1	4		02/20/2013	
52		52-1	4		02/20/2013	
		52-2	4		02/20/2013	
		52-3	4		02/20/2013	
73		73-1	4		02/20/2013	
74		74-1	4		02/20/2013	
76		76-1	4		02/20/2013	
77		77-1	4		02/20/2013	
78		78-1	4		02/20/2013	
			1		1	

U.S. DEPARTMENT OF TRANSPORTATION  MASTER MINIMUM EQUIPMENT LIST					
FEDERAL AVIATION ADMINISTRATION					
AIRCRAFT:	ARJET 45	REVISION NO: 4 DATE: 02/20/2013	PAGE NO: VII		
LL		GHTS OF CHANGE	V 11		
Cover Page	Updated Revision Num	ber and Cover Page format	to PL-31, Revision 3.		
All Pages	Revision 4 is a complete reissue of this MMEL due to the new guidelines to be used in the AIRCRAFT model box in the header and new cover page format, therefore all pages are Revision 4 even if there are no change bars on a page.				
	the System Sequence JASC Code numbering the change bar indicate	a revised numbering formation (Title) Column are in accordated system. No separate Highlies only this change. Items a evision 3a due to this number	ance with (IAW) the ights entry is made if re not in the same		
All ATA Sections	Changes in relief are made in conjunction with manufacturer's recommendations with FOEB concurrence and /or applicable portions of the latest Policy Letter revisions pertinent to the aircraft.				
All ATA Sections	Revised "FAR" to "14 CFR" in the "System Item" and "Remarks" sections of all affected ATA pages. (No separate Highlights entry is made if the change bar indicates only this change.)				
All ATA Sections	Items of equipment in the Title Column that were in plural form in Revision 3 have been changed to the singular form in Revision 4.				
Table Of Contents	Updated to incorporate Revision 4 changes.				
Log Of Revisions	Updated to incorporate Revision 4 changes.				
Control Pages	Updated to incorporate	Revision 4 changes.			
Highlights	Updated to incorporate	Revision 4 changes.			
Definitions	Updated to require current Policy Letter (PL) PL-25 Appendix B Definitions information for applicable portions of operator's MEL.				
Preamble		rent Preamble information fro to be included in operator's			
Guidelines [(O) & (M)]		r Operations (O) and Mainter W) revised Policy Letters or a aircraft manufacturer.			

U.S. DEPARTI	MENT OF TRANSPOR	ration			
MASTER MINIMUM EQUIPMENT LIST					
FEDERAL AVIATION ADMINISTRATION  AIRCRAFT: REVISION NO: 4 PAGE NO:					
LEARJET 45 DATE: 02/20/2013 VIII					
	HIGHLIGHTS OF CHANGE				
		ATA 21			
	Bleed Air Leak Warni	ng System relocated to ATA 2	26.		
-20-01	Revised Item Descrip	tion.			
-20-02	Revised Item Descrip here.	tion, Number Installed, and m	oved from ATA 25 to		
-21-01	Revised Item Descrip	tion and number installed.			
-30-01	Added CAS display nomenclature to item description.				
-30-02	Deleted, Revision 4.				
-32-01	Updated nomenclature to coincide with display.				
-33-01	Revised altitude to 9,000 feet and altitude restriction phraseology changed IAW PL-31 Revision 3.				
-33-02	Altitude restriction phraseology changed IAW PL-31 Revision 3.				
-40-01	Deleted (O) procedure	es requirement.			
-40-02	Revised system nome	enclature in the Remarks and	Exceptions.		
-40-03	Added Flight Deck Ele	ectric Foot Warmer System re	elief.		
-50-01	procedure requiremen	tion, deleted (M) procedures a nt, revised altitude to 9,000 fe y changed IAW PL-31 Revisio	et, and altitude		
-50-02	Revised Item Descrip	tion.			
-50-03	Vapor Cycle System relief added.				
-62-01	Title expanded.				
-62-02	Title expanded.				
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U.S. DEPART	MENT OF TRANSPORTA	_		
MASTER MINIMUM EQUIPMENT LIST FEDERAL AVIATION ADMINISTRATION				
AIRCRAFT: REVISION NO: 4 PAGE NO:				
LE	ARJET 45 HIGHLIO	DATE: 02/20/2013 GHTS OF CHANGE	IX	
	-	ATA 22		
-10-01	Revised the NOTE in the aircraft with Two or Mo	ne Remarks and Exceptions re Autopilots Installed.	. Deleted relief for	
-10-02	Revised Item Description proviso.	on. Revised Note 1, added	Note 2 in the second	
-10-03	Revised Item Description	on.		
-10-04	Deleted, Revision 4.			
-10-05	Relief relocated from A Remarks and Exceptio	TA 34, Revised Item Descripns.	otion and added	
		ATA 23		
-00-03	Updated IAW PL-106 Revision 4.			
-00-04	Revised Remarks and Exceptions.			
-00-05	"***" removed.	"***" removed.		
-00-06	Added new proviso.	Added new proviso.		
-20-02	Title reworded and add	led (M) and (O) procedure re	equirements.	
-20-03	"***" removed.			
-30-01	Relief relocated from A	TA 25.		
-40-01-01	Deleted NOTE.			
-40-02	"***" removed and adde	ed Remarks and Exceptions.		
-40-04	Revised Item Description	on and Number Installed.		
-40-05	"***" removed.			
-50-01	Revised Item Description	on and Remarks and Except	ions.	
-50-03	Revised Number Instal and Exceptions.	led, Number Required for Di	spatch, and Remarks	
-50-05	Relief relocated from A	TA 34 and Revised Remark	s and Exceptions.	

U.S. DEPARTIV	MENT OF TRANSPORTA		UM EQUIPMENT LIST		
FEDERAL AVIATION ADMINISTRATION					
AIRCRAFT:	AD IET 45	REVISION NO: 4	PAGE NO:		
LE	ARJET 45	DATE: 02/20/2013 GHTS OF CHANGE	X		
	ПІВПЦІ	3013 OF CHANGE			
		ATA 23 (Continued)			
-60-01	Revised Number Instal and Exceptions.	led, Number Required for Di	spatch, and Remarks		
		ATA 24			
-37-01	"***" removed.				
-37-01-02	Revised Item Description	on.			
-37-01-03	Revised Item Description.				
-37-02	Revised Item Description.				
-37-03	Revised Item Description.				
-37-04	Added new proviso.				
-37-05	Added new proviso.				
-37-06	Revised Item Description	on Remarks and Exceptions			
-37-07	Revised Item Description	on Remarks and Exceptions			
-37-08	Revised Item Description	on Remarks and Exceptions			
-37-09	Revised Item Description	on Remarks and Exceptions			
-50-01	Relief relocated from A	TA 25 and Revised Remark	s and Exceptions.		
		ATA 25			
	Galley Waste Receptage	nt Holder split up and relocat cle Access Doors/Covers rel (s) relief deleted Revision 4.			
-00-01-02	Relief moved to 21-20-	02, Revision 4.			

U.S. DEPART	MENT OF TRANSPORTA	ATION		
MASTER MINIMUM EQUIPMENT LIST FEDERAL AVIATION ADMINISTRATION				
AIRCRAFT: REVISION NO: 4 PAGE NO:				
LEARJET 45 DATE: 02/20/2013 HIGHLIGHTS OF CHANGE			XI	
ATA 25 (Continued)				
-00-02	Combined with ATA 33 Revision 4.	3-20-03, Passenger Lighted I	nformation Sign,	
-10-01	Relief combined with A Furnishings (NEF), Re	TA Item 25-20-01, Non-Essevision 4.	ential Equipment and	
-10-02	Revised Item Descripti Exceptions.	on, Number Installed, and R	emarks and	
-10-04	Deleted, Revision 4.			
-20-02-01	Passenger Seat Recline Mechanism relief updated IAW PL-079 Revision 8.			
-20-02-02	Deleted, Revision 4.			
-20-02-03	Revised Repair Category, added (M) procedure requirement and updated IAW PL-079 Revision 8.			
-20-02-04	Revised Remarks and Exceptions.			
-20-03	Revised Relief by deleting the proviso for aircraft with more than one ashtray and updated IAW PL-85 Revision 4.			
-20-04-01	Revised Number Instal	led.		
-20-04-02	Relief moved to 24-50-	01, Revision 4.		
-20-05	Revised Title, Remarks	s and Exceptions and added	an (M) symbol.	
-20-06	Revised Item Description, Remarks and Exceptions, and deleted the NOTE.			
-20-07	Added an (M) symbol.			
-50-01	Revised Item Descripti	on and deleted the first provi	so.	
-60-01-01	Updated IAW PL-73 Re	evision 5, added (O) procedu	ure requirement.	
-60-01-02	Updated IAW PL-73 Re	evision 5, added (O) procedu	ure requirement.	
-60-01-03	Updated IAW PL-73 Re	evision 5, added (O) procedu	ure requirement.	

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U.S. DEPARTMENT OF TRANSPORTATION  MASTER MINIMUM EQUIPMENT LIST					
	FEDERAL AVIATION ADMINISTRATION				
			PAGE NO: XII		
HIGHLIGHTS OF CHANGE					
	ATA 25 (Continued)				
-62-01	Relief relocated from A	TA 23 and updated IAW PL-	120 Revision 1.		
		ATA 26			
-00-01	Deleted, Revision 4.				
-12-01	Revised Remarks and	Exceptions.			
-13-01	Bleed Air Leak Warning	g System relief added.			
-21-02	Revised Remarks and	Exceptions.			
	ATA 27				
-00-01	Revised Remarks and Exceptions.				
-00-02	Relief moved to 34-18-01, Revision 4.				
		ATA 28			
-40-01	L STBY Switch Indicate	or relief added.			
-40-02	R STBY Switch Indicat	or relief added.			
-40-03	XFLOW Switch Indicate	or relief added.			
-40-04	FUEL USED RESET B	utton relief added.			
-41-01	Revised Item Description	on.			
-42-01	Revised Item Description	on.			
-42-02	Revised Item Description	on.			
		ATA 30			
-00-01	Revised Item Description	on and Remarks and Except	ions.		
-00-02	Revised Item Description	on and Remarks and Except	ions.		
-00-03	Item title updated.				

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U.S. DEPARTM	IENT OF TRANSPORT		UM EQUIPMENT LIST	
	ATION ADMINISTRATIO	N		
AIRCRAFT:	ARJET 45	REVISION NO: 4 DATE: 02/20/2013	PAGE NO: XIII	
		GHTS OF CHANGE	AIII	
		ATA 30 (Continued)		
-10-02	Revised Remarks and	Exceptions.		
-20-02	Revised Item Description	on and Remarks and Except	ions.	
-30-01	Revised Item Description both provisos.	on, Remarks and Exceptions	s, and added Notes to	
-30-02	System relief when "NO Rules deleted.	OT REQUIRED" by the Certif	fication or Operating	
-40-01	Revised Item Description	on.		
-40-02	Title, Repair Category, Number Required and Remarks updated.			
-40-03	Deleted, Revision 4.			
	ATA 31			
-20-01	Added Remarks and E	xceptions.		
-30-01	Updated IAW PL-87 Revision 10.			
-30-01-01-02	Revised Remarks and Exceptions.			
-50-01	Revised Item Description	on.		
-50-02	Revised Item Description	on and Remarks and Except	ions.	
-60-01	Relief relocated from A	TA 34.		
-60-02	Relief relocated from A	TA 34.		
-60-03	Relief relocated from A	TA 34.and Function Mode re	elief added.	
-60-03-03	Added Remarks and Exceptions.			
-60-04	Minimums Knob relief added and added Remarks and Exceptions.			
-60-05	RA/BARO Switch relief	added and added Remarks	and Exceptions.	
-60-06	Barometric STD Switch	relief added.		

U.S. DEPARTI	MENT OF TRANSPORTA				
MASTER MINIMUM EQUIPMENT LIST FEDERAL AVIATION ADMINISTRATION					
AIRCRAFT:		REVISION NO: 4	PAGE NO:		
LEARJET 45 DATE: 02/20/2013 HIGHLIGHTS OF CHANGE			XIV		
	ATA 32				
-40-01	Brake System relief pro	oviso reworded.			
-50-01	Deleted, Revision 4.				
		ATA 33			
-10-01	Revised Item Descripti	on.			
-10-02	Revised Item Descripti	on.			
-10-03	Revised Item Description.				
-10-04	Revised Item Description and Remarks and Exceptions.				
-10-05	Revised Item Description.				
-10-06	Revised Item Descripti	Revised Item Description and Remarks and Exceptions.			
-20-01	Revised Item Descripti	on and Remarks and Excep	tions.		
-20-02	Revised Item Descripti	on.			
-20-03	Updated IAW PL-123 F	Revision 1, added (O) proced	dure requirement.		
-40-02	Added the NOTE.				
-40-04	Revised Item Descripti	on and Number Installed.			
-40-08	Added Landing/Recog	nition Light Lens relief.			
-40-09	Revised Repair Catego	ory and Number Installed.			
-40-10	Updated IAW PL-72 R	evision 4.			
-50-01	Revised Item Descripti	on and updated provisos.			
-50-03	Deleted, Revision 4.				
		ATA 34			
-00-05	Relief moved to 23-50-	05, Revision 4.			

U.S. DEPARTMENT OF TRANSPORTATION  MASTER MINIMUM EQUIPMENT LIST					
FEDERAL AVIATION ADMINISTRATION					
AIRCRAFT: REVISION NO: 4 PAGE NO: DATE: 02/20/2013 XV			PAGE NO: XV		
		GHTS OF CHANGE			
		ATA 34 (Continued)			
-10-01	Deleted, Revision 4.				
-10-05	Relief moved to 22-10-	05, Revision 4.			
-16-01	Added NOTE to 1st pro	viso deleted 2 <sup>nd</sup> proviso and	added Alerts.		
-18-01	Relief relocated from A	TA 27.			
-21-01	Deleted, Revision 4.				
-23-01	Updated IAW PL-10 Re	evision 1.			
-31-01	Item 19 in Revision 3a separated into individual relief items for correct JASC Code numbering.				
-31-02	Item 19 in Revision 3a separated into individual relief items for correct JASC Code numbering.				
-32-01	Item 19 in Revision 3a separated into individual relief items for correct JASC Code numbering.				
-33-01	Item 20 in Revision 3a separated into individual relief items for correct JASC Code numbering.				
-36-01	Deleted, Revision 4.				
-41-01	Item 20 in Revision 3a separated into individual relief items for correct JASC Code numbering.				
-44-01-01	Revised NOTE.				
-50-01	Item 20 in Revision 3a separated into individual relief items for correct JASC Code numbering.				
-50-02	Updated IAW PL-105 F	Revision 1.			
-51-02	Item 20 in Revision 3a JASC Code numbering	separated into individual reli	ef items for correct		
-52-01	Updated IAW PL-76 Re	evision 5.			

U.S. DEPARTI	MENT OF TRANSPORTA	ATION		
MASTER MINIMUM EQUIPMENT LIST FEDERAL AVIATION ADMINISTRATION				
AIRCRAFT: REVISION NO: 4 PAGE NO:				
LE	EARJET 45	DATE: 02/20/2013 GHTS OF CHANGE	XVI	
	THOTIER			
		ATA 34 (Continued)		
-53-01	Item 20 in Revision 3a JASC Code numbering	separated into individual reli J.	ef items for correct	
-55-01	Item 19 in Revision 3a JASC Code numbering	separated into individual reli J.	ef items for correct	
-57-01		Item 20 in Revision 3a separated into individual relief items for correct JASC Code numbering.		
-60-01	Added Remarks and E	xceptions.		
-60-01-01	FMS Tune Function rel	lief added.		
-60-01-02	FMS Fuel Planning and Indicating Function relief added.			
-60-03	Deleted, Revision 4.			
-61-01	Revised Item Descripti Databases to Navigation	on from Flight Management on Database.	System Navigation	
		ATA 35		
-00-01	Deleted, Revision 4.			
-00-02	Revised Remarks.			
-00-03	Revised Number Instal	led.		
-20-01	Revised Item Descripti	on and Remarks and Except	ions.	
-20-01-01	Mask relief added.			
-20-01-02	Drop Out Panel relief a	dded.		
-20-01-03	Revised Item Number.			
-30-01	Update IAW PL-43 Rev	vision 2.		
		ATA 36		
-00-01	Altitude restriction phra	seology changed IAW PL-3	1 Revision 3.	

U.S. DEPARTI	MENT OF TRANSPORTA	ATION				
FEDERAL AVIA	MASTER MINIMUM EQUIPMENT LIST FEDERAL AVIATION ADMINISTRATION					
AIRCRAFT:		REVISION NO: 4	PAGE NO:			
LE	ARJET 45 D	DATE: 02/20/2013 EFINITIONS	XVII			
		ATA 38				
-30-01	Revised Item Description	on and deleted the second p	proviso.			
		ATA 46				
ATA 46	Revised section title to	Information Systems.				
		ATA 52				
-00-01	Revised Item Description	on.				
-10-01	Revised Item Description	on and Number Installed.				
-10-02	Revised Item Description	on.				
-10-03	Revised Item Description.					
-30-01	Revised Item Description, deleted (O) symbol, and revised Remarks.					
-48-01	Revised Item Description, deleted (M) symbol, and revised Remarks.					
-70-01-01	Revised Item Description	on and Remarks.				
-70-01-02	Revised Remarks.					
-70-01-03	Revised Remarks.					
-70-01-04	Revised Remarks.					
		ATA 74				
-00-01	Revised Item Description and combined provisos A) & B) into one new proviso.					
		ATA 76				
-00-01	Revised Remarks.					
-00-03	APR Switch Indicator (I	ight Function Only) relief ac	dded.			
-01-01	Added (M) symbol.					
-41-01	Added Engine Vibration	ATA 77  n Monitor System relief				

U.S. DEPARTMENT OF TRANSPORTATION					
	MASTER MINIMU	JM EQUIPMENT LIST			
FEDERAL AVIATION ADMINISTRATIO	N				
AIRCRAFT:	REVISION NO: 4	PAGE NO:			
LEARJET 45	DATE: 02/20/2013	XVIII			
D	EFINITIONS				

The required definitions are listed in Appendix B of MMEL Policy Letter PL-25. Additional definitions may be included in an operator's MEL as desired.

U.S. DEPARTMENT OF TRANSPORTATION					
MASTER MINIMUM EQUIPMENT LIS					
FEDERAL AVIATION ADMINISTRATION	FEDERAL AVIATION ADMINISTRATION				
AIRCRAFT:	REVISION NO: 4	PAGE NO:			
LEARJET 45 DATE: 02/20/2013 XIX					
PREAMBLE					

The applicable preamble must be inserted in the operator's MEL from FAA Policy Letter PL-34 or PL-36.

U.S. DEPARTMENT OF TRANSPORTATION						
	MASTER MINIM	UM EQUIPMENT LIST				
FEDERAL AVIATION ADMINISTRATION	FEDERAL AVIATION ADMINISTRATION					
AIRCRAFT:	REVISION NO: 4	PAGE NO:				
LEARJET 45 DATE: 02/20/2013 XX						
REGULATIONS REFERENCE						

#### REGULATIONS REFERENCE

Reference to regulations to use in operators MEL, when required, are in the current issue of Policy Letter 25. (Refer to http://fsims.faa.gov. Select "Publications" then MMEL Policy Letters under MMEL & AEG Guidance Documents.)

U.S. DEPARTMENT OF TRANSPORTATION  MASTER MINIMUM EQUIPMENT LIST					
FEDERAL AVIATION ADMINISTRATION	FEDERAL AVIATION ADMINISTRATION				
AIRCRAFT:	REVISION NO: 4	PAGE NO.			
LEARJET 45 DATE: 02/20/2013 XXI					
Guidelines for (O) & (M) Procedures					

The FOEB has identified a need for certain procedures to provide an adequate level of safety while providing relief for the following items. These procedures must be established by the operator. The following guidelines are to help establish these required procedures:

		ATA 21
-21-01	(M)	Maintenance procedure to secure the Auxiliary Heat.
-21-02	(M)	Maintenance procedure to secure the Auxiliary Heat.
-33-02	(M)	Maintenance procedure to secure inoperative Valve CLOSED.
-40-01	(M)	Maintenance procedure to inspect Baggage Compartment for signs of overheating.
-40-02	(M)	Maintenance procedure to ensure the Vapor Cycle System is operative and the Auxiliary Heater is deactivated.
-40-03	(M)	Maintenance procedure to ensure the Foot Warmer is deactivated.
-50-01	(O)	Operations to ensure Pack Switch is OFF and aircraft is operated unpressurized at 9,000 feet MSL or below.
-50-02	(M)	Maintenance procedure to ensure System is set to NORMAL Flow.
-50-03	(M)	Maintenance procedure to deactivate and secure the Vapor Cycle System.
		ATA 22
-10-01	(M)	Maintenance procedure to ensure no electrical or mechanical fault exists that will have an adverse effect on any Flight Control function.
-10-03	(O)	Operations procedure to execute a manual go-around.

U.S. DEPAR	TMENT	OF TRANSPORT				
FEDERAL A	VIATIOI	N ADMINISTRATIO		ER MINIMUM EQUIPMENT LIST		
AIRCRAFT: REVISION NO: 4 PAGE NO. LEARJET 45 DATE: 02/20/2013 XXII						
	LEARJI		DATE: 02/20/2013 s for (O) & (M) Procedur	res		
ATA 23						
-00-03	(O)		Operations procedure to ensure the SATCOM System operates normally and that adequate coverage is available.			
-20-01	(O)	Operations procand used.	edure to ensure alternate	e procedures are established		
-20-01-01	(O)	Operations procand used.	edure to ensure alternate	e procedures are established		
-20-02	(M)	Maintenance pro secured.	ocedure to ensure the sy	stem is deactivated and		
	(O)	Operations procand used.	Operations procedure to ensure alternate procedures are established and used.			
-40-01-01	(O)	Operations procedure to ensure passengers are adequately briefed.				
-40-02	(O)	Operations procedure to satisfactorily brief passengers.				
-40-03	(O)	Operations proc	Operations procedure to brief and alert passengers.			
-40-04	(O)	Operations procedure to brief and alert passengers.				
			ATA 24			
-50-01	(M)	Maintenance procedure to ensure Circuit Breaker is SECURED.				
			ATA 25			
-10-03-01	(M)	Maintenance pro	Maintenance procedure to ensure Seat is LOCKED.			
-20-02-01	(M)	Maintenance procedure to ensure Seat is SECURED in the full UPRIGHT position.				
-20-02-03	(M)	-	Maintenance procedure for Armrests with Recline Mechanism to ensure Seat is SECURED in the full UPRIGHT position.			
-20-05	(M)	-		ed Cabin Underseat Storage placarded "DO NOT USE".		

U.S. DEPAR	TMENT	OF TRANSPORT	ATION			
			MASTER	MINIMUM EQUIPMENT LIST		
FEDERAL AVIATION ADMINISTRATION AIRCRAFT: REVISION NO: 4 PAGE NO.						
	LEARJE	T 45	DATE: 02/20/2013	XXIII		
		Guideline	es for (O) & (M) Procedures	3		
			ATA 25 (Continued)	)		
-20-06	(M)	•	ocedure to ensure affected ED and placarded "DO NO	•		
-20-07	(M)	•	ocedure to ensure affected s securely CLOSED and pl			
-60-01-01	(O)			sealed in a manner that will n for a fully serviceable Unit.		
-60-01-02	(O)		Operations procedure to ensure EMK is resealed in a manner that will identify it as a Unit that cannot be mistaken for a fully serviceable Unit.			
-60-01-03	(O)	Operations procedure to ensure FAK is resealed in a manner that will identify it as a Unit that cannot be mistaken for a fully serviceable Unit.				
-62-01-02	(M)	Maintenance procedure to ensure ELT is deactivated.				
	(M)	Maintenance procedure to ensure ELT is deactivated.				
			ATA 26			
-12-01	(M)	Maintenance pro	ocedure to ensure Auxiliary	Power Unit is deactivated.		
-21-02	(M)	Maintenance procedure to ensure Auxiliary Power Unit is deactivated.				
			ATA 28			
-40-04	(O)		edure to ensure flight crew determine fuel burn.	has an alternate procedure		
-42-01	(O)	Operations procedure to ensure flight crew has a reliable means to determine fuel quantity for the intended flight.				
-42-02	(O)	Operations procedure to ensure flight crew has a reliable means to determine fuel quantity for the intended flight.				
			ATA 31			
-20-01	(O)	Operations proc	edure to accurately record	flight time.		

U.S. DEPAR	U.S. DEPARTMENT OF TRANSPORTATION					
MASTER MINIMUM EQUIPMENT LIST						
FEDERAL AVIATION ADMINISTRATION  AIRCRAFT: REVISION NO: 4 PAGE NO.						
AIRCRAFT:	LEARJE	T 15	DATE: 02/20/2013	XXIV		
	LEARJE			AAIV		
	Guidelines for (O) & (M) Procedures					
ATA 31 (Continued)						
-60-03-03	(O)		edure to ensure flight crew on available on PFD.	considers FMS information		
-60-04	(O)	Operations proc approach minim	edure to ensure flight crew a ums warning.	awareness of loss of		
-60-05	(O)		edure to ensure flight crew a ons and warnings.	awareness of loss of		
			ATA 32			
-40-01	(O)	Operations procedure to use all required operational and performance data in Section V of the AFM.				
	ATA 33					
-20-03	(O)		edure to ensure PA System when associated Sign(s) are	is used to notify passengers e placed ON or OFF.		
-20-03-01	(O)	Operations procedure to ensure alternate procedures are established and used to notify Cabin occupants.				
-40-08	(M)	Maintenance procedure utilizing Learjet Dispatch Deviation Guide Appendix A to temporarily shield cracked or shattered landing / recog light lens.				
-40-10	(O)	Operations procedure to ensure aircraft is equipped with an approved and operative Ice Detection System and deicing procedures do not require use of the light.				
			ATA 34			
-16-01	(O)		edure to ensure flight crew a gnments and that RVSM is r			

		OF TRANSPORT	MASTE	ER MINIMUM EQUIPMENT LIS			
-EDERAL A' AIRCRAFT:		N ADMINISTRATIO	REVISION NO: 4	PAGE NO.			
	LEARJE	T 45	DATE: 02/20/2013	XXV			
			s for (O) & (M) Procedu				
			ATA 34 (Continue				
-23-01	(O)		Operations procedure to ensure any combination of three Gyro or INS (IRU) Stabilized Compass Systems are operative.				
	(O)	(IRU) Stabilized operated with Do	Compass Systems oper ual Independent Navigat	nbination of two Gyro or INS ate normally, the Airplane is ion Capability, and is under iroute portion of the flight.			
	(O)	Operations procedure to ensure the flight is entirely within areas of magnetic unreliability provided at least two Stabilized Directional Gyro Systems are installed, operate normally, and are used in conjunction with approved Free Gyro Navigation Techniques.					
-44-01	(O)	Operations procedure to determine whether approach procedures require its use and to ensure flight crew awareness of affected Systems.					
-44-02-01	(O)	Operations procedure to ensure alternate procedures are established and used for altitude awareness.					
-44-02-01- 01	(O)	Operations procedure to ensure alternate procedures are established and used for altitude awareness.					
-44-02-01- 04	(O)	Operations procedure to ensure alternate procedures are established and used for Advisory Callouts.					
	(O)		edure to ensure alternate dvisory Callouts are not	e procedures are established required by 14 CFR.			
-44-02-01- 05	(O)		edure to ensure alternate inoperative Windshear N	e procedures are established Mode.			
	(O)	and used for an	inoperative Windshear N	e procedures are established Mode and the Windshear ctive) operates normally.			
-44-02-02	(O)	Operations procand used.	edure to ensure alternate	e procedures are established			
-44-03-01	(O)	Operations procand used.	edure to ensure alternate	e procedures are established			

U.S. DEPAR	TMENT	OF TRANSPORTA				
MASTER MINIMUM EQUIPMENT LIST FEDERAL AVIATION ADMINISTRATION						
AIRCRAFT:	LEARJE		REVISION NO: 4 DATE: 02/20/2013	PAGE NO. XXVI		
Guidelines for (O) & (M) Procedures						
ATA 34 (Continued)						
-44-03-01- 01	(O)	Operations proceand used for altit	edure to ensure alternate pro tude awareness.	ocedures are established		
-44-03-01- 04	(O)	Operations proceand used for Adv	edure to ensure alternate provisory Callouts.	ocedures are established		
	(O)		edure to ensure alternate prodvisory Callouts are not requ			
-44-03-01- 05	(O)		edure to ensure alternate pro inoperative Windshear Mode			
-44-04-01	(O)		Operations procedure to ensure alternate procedures are established and used for altitude awareness.			
-45-01	(M)	Maintenance procedure to deactivate and secure the System. Procedure applies to both provisos.				
-45-02	(M)	Maintenance procedure to deactivate and secure the System. Procedure applies to both provisos.				
-45-02-02	(O)	Operations procedure to ensure enroute or approach procedures do not require use of the RA Display System.				
-45-02-03	(O)	Operations procedure to ensure enroute or approach procedures do not require use of the TA Display System.				
-60-01	(O)	Operations procedure to ensure alternate flight planning procedures are established and used and flight plan will reflect correct aircraft type/special equipment suffix.				
-61-01	(O)	Operations procedure to verify status and suitability of Navigation Facilities and Fixes used to define route of flight.				
			ATA 35			
-00-04	(O)	Operations proceadequate for the	edure to confirm that Oxyger intended flight.	n System pressure is		
-20-01-02	(M)	Maintenance pro	ocedure to ensure oxygen macard installed.	asks and drop out panel is		

U.S. DEPAR	TMFNT	OF TRANSPORT	ATION			
MASTER MINIMUM EQUIPMENT LIST						
FEDERAL A AIRCRAFT:		N ADMINISTRATIO	N REVISION NO: 4	PAGE NO.		
	: LEARJE	T 45	DATE: 02/20/2013	XXVII		
Guidelines for (O) & (M) Procedures						
			ATA 36			
-00-01	(O)	•	Operations procedure to ensure appropriate Emergency Pressurization Valve is operative.			
			ATA 38			
-10-01	(M)	Maintenance proverify there are r	ocedure to deactivate or iso no leaks.	olate Components and to		
	(M)	Maintenance pro	ocedure to drain System ar	nd to ensure it remains		
-30-01	(M)		Maintenance procedure to deactivate or isolate Components and verify there are no leaks.			
			ATA 46			
-00-01-01	(O)	Operations procedure to ensure alternate procedures are established and used.				
-00-01-02	(O)	Operations procedure to ensure alternate procedures are established and used.				
-00-01-03	(O)	Operations procedure to ensure alternate procedures are established and used.				
-00-01-04	(M)	Maintenance procedure to ensure associated EFB and hardware is secured by an alternate means or removed from the aircraft (applies to both provisos).				
	(O)	Operations procedure to ensure alternate procedures are established and used.				
			ATA 49			
-00-01	(M)	Maintenance pro exists and unit is		d ensure no safety hazard		
			ATA 73			
-31-01	(O)		edure to use data from sou ormance calculations.	urces other than the FMS for		

U.S. DEPAR	TMENT	OF TRANSPORT	ATION	
			MASTE	R MINIMUM EQUIPMENT LIST
FEDERAL A	VIATION	N ADMINISTRATIO		
AIRCRAFT:			REVISION NO: 4	PAGE NO.
	LEARJE		DATE: 02/20/2013	XXVIII
		Guideline	s for (O) & (M) Procedur	es
			ATA 76	
-01-01	(M)	Maintenance pro	ocedure to deactivate and	d secure Synchronizer system.
			ATA 77	
-41-01	(M)	Maintenance pro Monitor system.	ocedure to deactivate and	d secure Engine Vibration
			ATA 78	
-30-01-01	(M)		d and the Thrust Reverse	propriate Service Bulletin is ers are secured in the
-30-01-02	(M)	Maintenance proin the FORWAR		d secure the Thrust Reversers

U. S. DEI	PARTMENT OF TRANSPORT	ATI	ON				Т
FEDERA	L AVIATION ADMINISTRAT	ΓΙΟΝ	1		MASTER MI	NIMUM EQUIPMENT LIS	1
AIRCRA	FT:	REV	VISIO		NO. 4	PAGE NO.	
	LEARJET 45				0/2013	21-1	
SYSTEM	ſ <u>.</u>	1. K			<u>CATEGORY</u> IBER INSTALL	.ED	
	CE NUMBERS & ITEM		2. 1			JIRED FOR DISPATCH	
					4. REMARKS	AND EXCEPTIONS	
21	AIR CONDITIONING						
-20-01	Flight Deck Air Vent / Gasper (WEMAC)	С	-	0			
-20-02	Cabin Air Vent / Gasper (WEMAC)	D	-	0			
-21-01	Lavatory Recirculation Fan	С	1	0	(M) May be inor Heat is DISABL	perative provided Auxiliary .ED.	
-21-02	Lavatory Recirculation Fan HIGH / LOW Speed Switch	С	1	0	(M) May be inop Heat is disabled	perative provided Auxiliary d.	
		С	1	0		ntive provided Fan operates when Auxiliary Heat is	
-30-01	Cabin Pressurization Control System Channel (CAB PRESS FAIL)	С	2	1	One (1) may be	e inoperative.	
-30-02	MANUAL PRESS Control System				Deleted, Revis	ion 4	1
-32-01	CABIN PRESSURE CONTROL Display	С	1	0	RATE, DELTA	ntive provided CABIN P, and CABIN ALT CAS ECS page are	1

U. S. DEI	PARTMENT OF TRANSPOR	ГАТІ	ON		
EEDED A	L AVIATION ADMINISTRA	TION	Ţ		MASTER MINIMUM EQUIPMENT LIST
AIRCRA				NC	NO. 4 PAGE NO.
	LEARJET 45				20/2013 21-2
		1. R	EPA	IR (	CATEGORY
SYSTEM	•		2. 1		MBER INSTALLED
SEQUEN	CE NUMBERS & ITEM			3. N	UMBER REQUIRED FOR DISPATCH 4. REMARKS AND EXCEPTIONS
	AID CONDITIONING				4. REMARKS AND EXCEPTIONS
21	AIR CONDITIONING				
-33-01	Cabin Air Outflow Valve	С	2	1	One (1) may be inoperative provided:  a) Aircraft is operated unpressurized, and b) Aircraft is operated at 9,000 feet MSL or below.
-33-02	Emergency Pressurization Valve	С	2	1	(M) One (1) may be inoperative provided:  a) Inoperative Valve is secured CLOSED, and b) Aircraft is operated at 41,000 feet MSL or below.
-40-01	Baggage Compartment Heater	С	1	0	(M) May be inoperative provided passengers are advised that baggage contents are subject to freezing.
-40-02	Auxiliary Heat	D	1	0	(M) May be inoperative provided Vapor Cycle Cooling System is operative.
-40-03	Flight Deck Electric Foot Warmer System	С	1	0	(M) May be inoperative provided temperature is acceptable to flight crew.
-50-01	PACK	С	1	0	(O) May be inoperative provided:  a) Aircraft is operated unpressurized at 9,000 feet MSL or below, and b) PACK Switch is OFF.
-50-02	Pack HI FLOW System	С	1	0	(M) May be inoperative provided System   is set to NORMAL Flow.

U. S. DEI	PARTMENT OF TRANSPORT	ATI	ON		
			-		MASTER MINIMUM EQUIPMENT LIST
	L AVIATION ADMINISTRAT				
AIRCRA					NO. 4 PAGE NO.
	LEARJET 45				0/2013 21-3
SYSTEM	ī	1. K			CATEGORY (DED INSTALLED
	ICE NUMBERS & ITEM		2. 1		IBER INSTALLED IUMBER REQUIRED FOR DISPATCH
BLQCLI	CE IVENIBERS & ITEM			3.1	4. REMARKS AND EXCEPTIONS
21	AIR CONDITIONING				
-50-03	Vapor Cycle System	D	-	0	(M) May be inoperative provided Vapor
					Cycle System is deactivated and secured.
-60-01	Automatic Tomporatura	С	1	0	May be inoperative provided Manual
-60-01	Automatic Temperature Control System		1	U	Temperature Control System is operative.
	Serial System				Tomporators control cyclem to operative.
-60-02	Manual Temperature Control	С	1	0	May be inoperative provided Automatic
	System				Temperature Control System is operative.
00.04					
-62-01	EICAS TEMP CONT Display (CKPT)	С	1	0	
	(CKF1)				
-62-02	EICAS TEMP CONT Display	С	1	0	
02 02	(CAB)		•		
-62-03	EICAS CAB TEMP Display	С	1	0	

U. S. DE	PARTMENT OF TRANSPORT	TATI	ON		MASTER MINIMUM EQUIPMENT LIST
FEDER A	L AVIATION ADMINISTRA	ΓΙΟΝ	J		MASTER MINIMUM EQUIPMENT LIST
AIRCRA				ON	NO. 4 PAGE NO.
	LEARJET 45	DA	TE:	02/2	20/2013 22-1
		1. R			CATEGORY
SYSTEM	•		2.		MBER INSTALLED
SEQUEN	ICE NUMBERS & ITEM			3. 1	NUMBER REQUIRED FOR DISPATCH  4. REMARKS AND EXCEPTIONS
				1	4. REMARKS AND EXCEPTIONS
22	AUTOPILOT				
-10-01	Autopilot System	В	1	0	(M) Except where enroute operations require its use, may be inoperative.
					NOTE: RVSM is not authorized.
-10-02	Control Wheel Master Switch (MSW)	С	2	1	One (1) may be inoperative provided:  a) Autopilot is not used below 1,500 feet AGL, and b) Approach minimums do not require the use of the Autopilot.
		В	2	0	May be inoperative provided Autopilot is not used.
					NOTE 1: Control Wheel Master Switch (MSW) is required for functions other than the Autopilot System.
					NOTE 2: RVSM is not authorized.
-10-03	GO-AROUND Switch	С	1	0	(O) May be inoperative provided:  a) Autopilot and Flight Director are not used below 500 feet AGL, and b) Alternate procedures are established and used.
-10-04	Yaw Damper System				Deleted, Revision 4.

U. S. DE	PARTMENT OF TRANSPOR	RTATI	ON				
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FEDERA	L AVIATION ADMINISTRA	ATION	1				
AIRCRA	FT:	RE	VISI	ON :	NO. 4	PAGE NO.	
	LEARJET 45	DA'	TE:	02/2	20/2013	22-2	
		1. R	EPA	AIR (	CATEGORY		
SYSTEM	1,		2.	<u>NUN</u>	MBER INSTALL	ED	
SEQUEN	ICE NUMBERS & ITEM			3. N		IRED FOR DISPATCH	
					4. REMARKS A	AND EXCEPTIONS	
22	AUTOPILOT						
-10-05	Touch Control Steering	С	2	0			
	(TCS) Switch						Ì
-20-01	Mach Trim System	С	1	0	May be inoperat	tive provided aircraft is	
					operated in acco	ordance with AFM	
					Limitations.		

	PARTMENT OF TRANSPOR				MASTER MINIMUM EQUIPMENT L	IST
AIRCRA	LL AVIATION ADMINISTRA FT: LEARJET 45	RE	VISI		NO. 4 PAGE NO. 23-1	
SYSTEM SEQUEN	I, ICE NUMBERS & ITEM COMMUNICATIONS	_	REP/	AIR NUN	CATEGORY MBER INSTALLED NUMBER REQUIRED FOR DISPATCH 4. REMARKS AND EXCEPTIONS	
-00-01	Flight Phone	С	-	0		1
-00-02	Press-To-Talk Switch (Control Wheel)	С	2	0	May be inoperative provided:  a) Switch has not failed in the Transmit Mode, and b) Hand Held Microphone on associated side is operative.	1
-00-03	High Frequency (HF) Communication System	D	-	-	Any in excess of those required by 14 CFR may be inoperative.	
		C	-	1	<ul> <li>(O) May be inoperative while conducting operations that require two (2) LRCS provided: <ul> <li>a) SATCOM Voice or Data Link operates normally,</li> <li>b) Alternate procedures are established and used,</li> <li>c) SATCOM coverage is available over the intended route of flight, and</li> <li>d) If SATCOM Voice is to be used over the intended route of flight, SATCOM Voice short codes (INMARSAT) or direct dial commercial numbers (IRIDIUM) must be available. If not available, prior coordination with appropriate ATS (FIR) facility is required.</li> </ul> </li> <li>NOTE: SATCOM Voice is to be used only as a backup to normal HF communications.</li> </ul>	

<b>AIRCRA</b>	L AVIATION ADMINISTRA			ON	NO. 4	PAGE NO.
AIRCKA	LEARJET 45			-	20/2013	23-2
SYSTEM			EP/	AIR	CATEGORY MBER INSTALL	
SEQUEN	ICE NUMBERS & ITEM			3. ]		IRED FOR DISPATO AND EXCEPTIONS
23	COMMUNICATIONS					
-00-04	Communications System (VHF And UHF)	D	-	-	CFR may be inc a) VHF CO b) System i aircraft E System I c) System i	f those required by 14 perative provided: M 1 is operative, s not powered by any mergency Power Bus, and s not required for acy procedures.
-00-05	Satellite Communications System	С	-	0		
-00-06 ***	WIFI Internet System	D	-	-		
-20-01	Selective Call System (SELCAL)	С	-	0		erative provided lures are established
		D	-	0	May be inoperated do not require its	ive provided procedu s use.
-01	Channel	С	-	0	(O) May be inop alternate procedused.	erative provided lures are established
		D	-	0	May be inoperated not require its	ive provided procedu

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AIRCRA	LEARJET 45			-	20/2013	23-3
	22,1102,110	_			CATEGORY	25 5
SYSTEM	[,				MBER INSTALL	ED
SEQUEN	ICE NUMBERS & ITEM			3. 1		IRED FOR DISPATO
				l	4. REMARKS A	AND EXCEPTIONS
23	COMMUNICATIONS					
-20-02	ACARS Communication Addressing And Reporting System	С	-	0	a) Affected deactiva b) Alternate	inoperative provided: equipment is ted, and procedures are used d communications.
-20-03	Airborne Flight Information System (AFIS)	С	-	0		
-30-01	Passenger Audio Control Panel	D	-	0		
-40-01	Passenger Address System (PA)					
-01	Passenger Configuration	С	1	0	a) PA not re b) Alternate procedui	perative provided: equired by 14 CFR, a e, normal and emerge res, and/or operating ns are established an
-02	Cargo Configuration	D	1	0	May be inoperated on trequire its	ive provided procedu s use.
-40-02	Pre-Recorded Passenger Announcement System	С	-	0		erative provided lures are established

U. S. DEI	PARTMENT OF TRANSPOR	ГАТІ	ON			
			_		MASTER MINIMUM EQUIPMENT LI	ST
	L AVIATION ADMINISTRA	-		ONI	NO 4 PAGENO	
AIRCRA	FT: LEARJET 45				NO. 4 PAGE NO. 23-4	
	LLANGE 1 45	_			CATEGORY	
SYSTEM		1. 1			MBER INSTALLED	
	CE NUMBERS & ITEM				NUMBER REQUIRED FOR DISPATCH	
					4. REMARKS AND EXCEPTIONS	
23	COMMUNICATIONS					
-40-03	Cabin Chimes	С	-	0	<ul> <li>(O) May be inoperative provided:</li> <li>a) Passenger Address System operates normally, and</li> <li>b) Alternate procedures are established and used.</li> </ul>	1
-40-04	Speaker (Cabin / Lavatory)	В	-	0	(O) May be inoperative provided alternate, normal and emergency procedures and / or operating restrictions are established and used.	1
-40-05	Maintenance Interphone System	С	-	0		1
-50-01	Speaker (Flight Deck)	С	2	0	May be inoperative provided an operative Headset is used by each Flight Deck crewmember.	
-50-02	Headset	С	-	-	As required by 14 CFR.	I
-50-03	Hand Held Microphone	С	2	0	May be inoperative provided:  a) The associated Flight Deck crewmember uses a Boom Microphone, and b) The associated Control Wheel Press-To-Talk Switch is operative.	

	L AVIATION ADMINISTRA	LION	1			
AIRCRA					NO. 4	PAGE NO.
	LEARJET 45	+			20/2013	23-5
arramma.		1. R			CATEGORY	
SYSTEM			2.		MBER INSTALL	
SEQUEN	ICE NUMBERS & ITEM			3.1		IRED FOR DISPA
					4. KEMAKKS /	AND EXCEPTIONS
23	COMMUNICATIONS					
-50-04	Boom Microphone					
-01	Cockpit Voice Recorder With Flight Data Recorder Installed					
-01	Cockpit Voice Recorder Equipped To Record Boom Microphone Per 14 CFR 121.359(g) Or 135.151(d).	A	-	0	operates	ita Recorder (FDR) normally, and are made within thro
-02 ***	Cockpit Voice Recorder Not Equipped To Record Boom Microphone	D	-	0	Any in excess of CFR may be inc	f those required by perative.
-02	Cockpit Voice Recorder Without Flight Data Recorder Installed					
-01	Cockpit Voice Recorder Equipped To Record Boom Microphone Per 14 CFR 121.359(g) Or 135.151(d)	A	-	0		ive provided repair ee (3) flight days.
	Cockpit Voice Recorder Not Equipped To Record Boom Microphone	D	-	0	Any in excess of CFR may be inc	f those required by perative.

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AIRCRA		RE	VISI	_	NO. 4 PAGE NO. 23-6				
SYSTEM	,	1. R	REPAIR CATEGORY 2. NUMBER INSTALLED						
SEQUEN	CE NUMBERS & ITEM			3. 1	NUMBER REQUIRED FOR DISPATCH  4. REMARKS AND EXCEPTIONS	1			
23	COMMUNICATIONS								
-50-05	Radio Management Unit (RMU)	С	2	1	RMU 1 must be operative.	I			
-60-01	Static Wick	С	19	15	Four (4) or less may be missing or broken in any of the following locations:  a) Most Inboard Wick on each Winglet, b) Most Inboard Wick on each Delta Fin, c) Most Inboard Wick on each Elevator, and d) On Aft Vertical Stabilizer Fairing.				
-70-02	Cockpit Voice Recorder (CVR)					I			
-01	For Air Carrier And Commercial Operators								
-01	With Flight Data Recorder (FDR) Installed	A	1	0	May be inoperative provided:  a) Flight Data Recorder (FDR) operates normally, and b) Repairs are made within three (3) flight days.				
					(Continued)				

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	LEARJET 45				20/2013	23-7			
		1. R			CATEGORY				
SYSTEM	•		2. I		MBER INSTALL				
SEQUEN	CE NUMBERS & ITEM			3. ľ		IRED FOR DISPATCH AND EXCEPTIONS			
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23	COMMUNICATIONS								
-70-02	Cockpit Voice Recorder						ı		
7002	(CVR) (Continued)						'		
-01	For Air Carrier And								
	Commercial Operators (Continued)						1		
	(Continued)								
-02	Without Flight Data Recorder	Α	1	0	May be inoperat	ive provided repairs are			
	(FDR) Installed				made within thre	•	i		
-02	For Operators Other Than	Α	1	0		ive provided repairs are	$ \cdot $		
	Air Carriers And Commercial Operators				made in accorda	ance with applicable 14	$\ \cdot\ $		
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AIRCRA				ΟN	NO. 4	PAGE NO.	
AIRCRA	LEARJET 45				20/2013	24-1	
					CATEGORY		
SYSTEM	[,				MBER INSTALL	ED	
SEQUEN	ICE NUMBERS & ITEM			3. 1		IRED FOR DISPATCH	
					4. REMARKS A	AND EXCEPTIONS	
24	ELECTRICAL						
-37-01	APU Amperage Display (LR-45)						1
-01	EICAS APU Amperage Display	С	1	0		ive provided APU Control e Indication is operative.	
	Display				r allei Allipelage	e mulcation is operative.	
-02	APU Control Panel GEN AMPS Indication	С	1	0	May be inoperat Amperage Displ	ive provided EICAS APU ay is operative.	
-03	EICAS and APU Control Panel GEN AMPS Display	С	2	0	Both may be ino not used.	perative provided APU is	
-37-02	L & R BATT Switch Indicator (Light Function Only)	С	2	0	May be inoperat Battery is operat	ive provided associated tive.	1
-37-03	L & R GEN Switch Indicator (Light Function Only)	С	2	0	May be inoperat Generator is ope	ive provided associated erative.	
-37-04	BUS-TIE Switch Indicator (Light Function Only)	С	1	0	May be inoperat operative.	ive provided BUS-TIE is	1
-37-05	APU GEN Switch Indicator (Light Function Only)	С	1	0	May be inoperat operative.	ive provided APU GEN is	

FEDERAL AVIATION ADMINISTRATION  AIRCRAFT: LEARJET 45 REVISION NO. 4 DATE: 02/20/2013 1. REPAIR CATEGORY  SYSTEM, SEQUENCE NUMBERS & ITEM  24 ELECTRICAL  -37-06 L & R MAIN Bus Indicator (Light Function Only)  -37-07 L & R NON-ESS BUS Indicator (Light Function Only)  -37-08 L & R AV MSTR Switch Indicator (Light Function Only)  -37-09 EMER BATT Switch Indicator (Light Function Only)  -37-09 EMER BATT Switch Indicator (Light Function Only)  -37-09 EMER BATT Switch Indicator (Light Function Only)  -40-01 External Power System  C 1 0 May be inoperative provided the associated Bus is operative.    1	U.S. DEF	PARTMENT OF TRANSPORT	TATI	ON			
AIRCRAFT: LEARJET 45  REVISION NO. 4 DATE: 02/20/2013  24-2  1. REPAIR CATEGORY  2. NUMBER INSTALLED  3. NUMBER REQUIRED FOR DISPATCH  4. REMARKS AND EXCEPTIONS  24 ELECTRICAL  -37-06 L & R MAIN Bus Indicator (Light Function Only)  -37-07 L & R NON-ESS BUS Indicator (Light Function Only)  -37-08 L & R AV MSTR Switch Indicator (Light Function Only)  -37-09 EMER BATT Switch Indicator (Light F						MASTER MINIMUM EQUIPMENT LIS	Т
SYSTEM, SEQUENCE NUMBERS & ITEM  24 ELECTRICAL  -37-06 L & R MAIN Bus Indicator (Light Function Only)  -37-07 L & R NON-ESS BUS Indicator (Light Function Only)  -37-08 L & R AV MSTR Switch Indicator (Light Function Only)  -37-09 EMER BATT Switch Indicator (Light Function Only)  -37-09 EMER BATT Switch Indicator (Light Function Only)  -37-09 EXPENSIVE DATE: 02/20/2013  1. REPAIR CATEGORY  2. NUMBER INSTALLED  3. NUMBER REQUIRED FOR DISPATCH  4. REMARKS AND EXCEPTIONS   C 2 0 May be inoperative provided the associated Bus is operative.  C 2 0 May be inoperative provided the associated Bus is operative.  C 1 0 May be inoperative provided the associated Bus is operative.  C 1 0 May be inoperative provided the associated Bus is operative.  C 1 0 May be inoperative provided Emergency Battery System is operative.						1	
SYSTEM, SEQUENCE NUMBERS & ITEM  1. REPAIR CATEGORY 2. NUMBER INSTALLED 3. NUMBER REQUIRED FOR DISPATCH 4. REMARKS AND EXCEPTIONS  24 ELECTRICAL  -37-06 L & R MAIN Bus Indicator (Light Function Only)  -37-07 L & R NON-ESS BUS Indicator (Light Function Only)  -37-08 L & R AV MSTR Switch Indicator (Light Function Only)  -37-09 EMER BATT Switch Indicator (Light Function Only)	AIRCRA				-		
SYSTEM, SEQUENCE NUMBERS & ITEM  24 ELECTRICAL  -37-06 L & R MAIN Bus Indicator (Light Function Only)  C 2 0 May be inoperative provided the associated Bus is operative.  -37-07 L & R NON-ESS BUS Indicator (Light Function Only)  C 2 0 May be inoperative provided the associated Bus is operative.  C 2 0 May be inoperative provided the associated Bus is operative.  C 2 0 May be inoperative provided the associated Bus is operative.  C 2 0 May be inoperative provided the associated Bus is operative.  C 1 0 May be inoperative provided the associated Bus is operative.  C 1 0 May be inoperative provided the associated Bus is operative.  C 1 0 May be inoperative provided Emergency Battery System is operative.		LEARJET 45					
SEQUENCE NUMBERS & ITEM  3. NUMBER REQUIRED FOR DISPATCH 4. REMARKS AND EXCEPTIONS  24 ELECTRICAL  -37-06 L & R MAIN Bus Indicator (Light Function Only)  -37-07 L & R NON-ESS BUS Indicator (Light Function Only)  -37-08 L & R AV MSTR Switch Indicator (Light Function Only)  -37-09 EMER BATT Switch Indicator (Light Function Only)	SYSTEM		1. K				
24 ELECTRICAL  -37-06 L & R MAIN Bus Indicator (Light Function Only)  C 2 0 May be inoperative provided the associated Bus is operative.    1		•					
-37-06 L & R MAIN Bus Indicator (Light Function Only)  C 2 0 May be inoperative provided the associated Bus is operative.  1 37-07 L & R NON-ESS BUS Indicator (Light Function Only)  C 2 0 May be inoperative provided the associated Bus is operative.  C 2 0 May be inoperative provided the associated Bus is operative.  C 2 0 May be inoperative provided the associated Bus is operative.  C 2 0 May be inoperative provided the associated Bus is operative.  C 1 0 May be inoperative provided Emergency Battery System is operative.	1					4. REMARKS AND EXCEPTIONS	
(Light Function Only)  -37-07 L & R NON-ESS BUS Indicator (Light Function Only)  -37-08 L & R AV MSTR Switch Indicator (Light Function Only)  -37-09 EMER BATT Switch Indicator (Light Function Only)  -37-09 EXTERMINENT SWITCH INDICATOR INDIC	24	ELECTRICAL					
(Light Function Only)  -37-07 L & R NON-ESS BUS Indicator (Light Function Only)  -37-08 L & R AV MSTR Switch Indicator (Light Function Only)  -37-09 EMER BATT Switch Indicator (Light Function Only)  -37-09 EXTERMINENT SWITCH INDICATOR INDIC							
-37-07 L & R NON-ESS BUS Indicator (Light Function Only)  C 2 0 May be inoperative provided the associated Bus is operative.  C 2 0 May be inoperative provided the associated Bus is operative.  C 2 0 May be inoperative provided the associated Bus is operative.  C 1 0 May be inoperative provided the associated Bus is operative.  C 1 0 May be inoperative provided Emergency Battery System is operative.	-37-06		С	2	0		
Indicator (Light Function Only)  -37-08 L & R AV MSTR Switch Indicator (Light Function Only)  -37-09 EMER BATT Switch Indicator (Light Function Only)  -37-09 EXTERMINENT C T T Switch Indicator (Light Function Only)  -40-01 External Power System  C T T T T T T T T T T T T T T T T T T		(Light Function Only)				associated Bus is operative.	
Indicator (Light Function Only)  -37-08 L & R AV MSTR Switch Indicator (Light Function Only)  -37-09 EMER BATT Switch Indicator (Light Function Only)  -37-09 EXTERMINENT C T T Switch Indicator (Light Function Only)  -40-01 External Power System  C T T T T T T T T T T T T T T T T T T							
Only)  -37-08 L & R AV MSTR Switch Indicator (Light Function Only)  -37-09 EMER BATT Switch Indicator (Light Function Only)  C 1 0 May be inoperative provided the associated Bus is operative.  C 1 0 May be inoperative provided Emergency Battery System is operative.	-37-07	L & R NON-ESS BUS	С	2	0		
-37-08 L & R AV MSTR Switch Indicator (Light Function Only)  -37-09 EMER BATT Switch Indicator (Light Function Only)  C 1 0 May be inoperative provided the associated Bus is operative.  C 1 0 May be inoperative provided Emergency Battery System is operative.		, G				associated Bus is operative.	
Indicator (Light Function Only)  associated Bus is operative.    Associated Bus is operative.		Only)					
Indicator (Light Function Only)  associated Bus is operative.    Associated Bus is operative.							
Only)  -37-09 EMER BATT Switch Indicator (Light Function Only)  -40-01 External Power System  C 1 0 May be inoperative provided Emergency Battery System is operative.	-37-08		С	2	0		
-37-09 EMER BATT Switch Indicator (Light Function Only)  C 1 0 May be inoperative provided Emergency Battery System is operative.  C 1 0   C   1 0   C   C   C   C   C   C   C   C   C						associated Bus is operative.	
Indicator (Light Function Only)  -40-01 External Power System  C 1 0		····/					
Indicator (Light Function Only)  -40-01 External Power System  C 1 0					_		
Only) -40-01 External Power System C 1 0	-37-09		С	1	0		
-40-01 External Power System C 1 0						Battery System is operative.	ı
		•					
	40.04	Fortage of Devices Overtage					l, l
FO.04. Cohin Douver Outlet Cyptem. D. O. (MA) May be in an arctive provided the	-40-01	External Power System		1	U		
FO. 04 Cohin Douger Outlet Custom D O (AA) May be in an austing manifest the							
	-50-01	Cabin Power Outlet System	D	-	0	(M) May be inoperative provided the	
System is deactivated.						System is deactivated.	

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U. S. DEF	PARTMENT OF TRANSPORT	ATI	ON		MASTER MI	NIMUM EQUIPMENT LIS	$_{\mathbf{T}}$
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AIRCRA				ON	NO. 4	PAGE NO.	
	LEARJET 45	DA	TE:	02/2	20/2013	25-1	
		1. R			CATEGORY		
SYSTEM	,		[2.]		MBER INSTALL		
SEQUEN	CE NUMBERS & ITEM			3.1		IRED FOR DISPATCH AND EXCEPTIONS	
25	EQUIPMENT/				I. ICENTITIES	IND ERELI TIONS	
25	FURNISHINGS						
-00-01	Chart Holder	С	2	0			1
-01	Light	С	2	0			
-01	Light		_	U			I
-02	Cabin Air Vents (WEMACS)				Relief moved to	21-20-02, Revision 4.	1
	<b>#</b>						
-00-02	"FASTEN SEAT BELT WHILE SEATED" Sign or				Relief moved to	33-20-03, Revision 4.	
	Placard						
-10-01	Flight Deck Decorative Trim					with ATA Item 25-20-01,	
	Panels and Moldings				Revision 4.	quipment and Furnishings,	
					Troviolon II		1
-10-02	Flight Deck Sunvisor System	D	-	0		or inoperative provided	
					pilot's field of vis	sion is not obstructed.	ı
-10-03	Flight Crew Seat						
10 00	. ng.n. Grow Godi						1
-01	Manual Vertical Adjustment	В	2	0		erative provided:	ļ
						ocked in a position that normal visibility,	ı
						nt Control movement is	
					available	, and	
					1	of Seat is acceptable to	
					flight cre	vv.	
						(Continued)	

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FEDERA	L AVIATION ADMINISTRAT	ΓΙΟΝ	1		MASTER MINIMUM EQUIPMENT LIS	, I				
AIRCRA				-	NO. 4 PAGE NO.					
	LEARJET 45		DATE: 02/20/2013 25-2							
ON COMPA		1. R			CATEGORY					
SYSTEM			2.		MBER INSTALLED					
SEQUEN	ICE NUMBERS & ITEM			3. 1	NUMBER REQUIRED FOR DISPATCH  4. REMARKS AND EXCEPTIONS					
25	EQUIPMENT/ FURNISHINGS				4. REWARKS AND EACE! HONS					
-10-03	Flight Crew Seat (Continued)					ı				
-02	Lumbar Support	С	2	0		I				
-03	Armrest	С	4	0		I				
-04	Recline Function	С	2	0	May be inoperative provided Seat is acceptable to flight crew.	I				
-05	Headrest	С	2	0	May be inoperative provided Seat is acceptable to the flight crew.	I				
-10-04	Observer Seat(s)				Deleted, Revision 4.	I				
-20-01	Non-Essential Equipment & Furnishings (NEF)		-	0	May be inoperative, damaged, or missing provided that the item(s) is deferred in accordance with the operator's NEF deferral program. The NEF program, procedures, and processes are outlined in the operators (insert name) Manual. (M) and (O) procedures, if required, must be available to the flight crew and included in the operator's appropriate document.					
					NOTE: Exterior Lavatory Door Ash Trays are not considered NEF Items.					

	PARTMENT OF TRANSPO LL AVIATION ADMINISTR				MASTER MINIMUM EQUIPMENT LIS	Т			
AIRCRA		RE	VISI	-	NO. 4 PAGE NO. 25-3				
SYSTEM, SEQUENCE NUMBERS & ITEM		1. R	1. REPAIR CATEGORY  2. NUMBER INSTALLED  3. NUMBER REQUIRED FOR DISPATO  4. REMARKS AND EXCEPTIONS						
25	EQUIPMENT/ FURNISHINGS								
-20-02	Passenger Seat	D	-	-	May be inoperative provided:  a) Seat does not block an Emergency Exit,  b) Seat does not restrict any passenger from access to the Main Aircraft Aisle, and c) The affected Seat is blocked and placarded "DO NOT OCCUPY".	1			
					NOTE 1: A Seat with an inoperative Seat Belt is considered inoperative.				
					NOTE 2: Affected Seat may include the Seat behind and / or adjacent outboard Seat.				
-01	Recline Mechanism	D	-	-	(M) May be inoperative and Seat occupied provided Seat is secured in the FULL UPRIGHT position.				
		D	-	-	May be inoperative and Seat occupied provided Seat Back is IMMOVABLE in FULL UPRIGHT position.				
-02	Underseat Baggage Restraining Bars				Deleted, Revision 4.				
					(Continued)				

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AIKCKA	LEARJET 45				PAGE NO. 25-4	
		+			CATEGORY	
SYSTEM	*			NUN	MBER INSTALLED	
SEQUEN	CE NUMBERS & ITEM			3. N	NUMBER REQUIRED FOR DISPATCH	
					4. REMARKS AND EXCEPTIONS	 
25	EQUIPMENT/ FURNISHINGS					
-20-02	Passenger Seat (Continued)					I
-03	Armrest	D	-	-	<ul> <li>(M) May be inoperative or missing and Seat occupied provided: <ul> <li>a) Armrest does not block an Emergency Exit,</li> <li>b) Armrest does not restrict any passenger from access to the Main Aircraft Aisle, and</li> <li>c) For an Armrest with a Recline Mechanism, Seat is secured in the UPRIGHT position.</li> </ul> </li> </ul>	1
-04	Swivel Mechanism	D	-	-	May be inoperative and Seat occupied provided Seat is immovable in placarded taxi, takeoff and landing position.	
-20-03	Exterior Lavatory Door Ashtray	A	1	0	May be missing or inoperative for ten (10) calendar days.	
-20-04	Cabin Power Equipment					
-01	Cabin Power Outlet Cover	D	-	0		
-02	Cabin Power Outlet System				Moved to 24-50-01, Revision 4.	

U. S. DE	PARTMENT OF TRANSPOR	ΓΑΤΙ	ON		MACTED MINIMUM EQUIDATION INTO
FEDER A	L AVIATION ADMINISTRA	TION	J		MASTER MINIMUM EQUIPMENT LIST
AIRCRA				ON	NO. 4 PAGE NO.
mich	LEARJET 45				20/2013 25-5
		_			CATEGORY
SYSTEM	[,				MBER INSTALLED
SEQUEN	ICE NUMBERS & ITEM			3.1	NUMBER REQUIRED FOR DISPATCH
					4. REMARKS AND EXCEPTIONS
25	EQUIPMENT/ FURNISHINGS				
-20-05	Cabin Underseat Storage Door / Drawer	D	-	0	<ul> <li>(M) May be missing or inoperative provided: <ul> <li>a) If missing, contents must be relocated,</li> <li>b) If inoperative, Door must be closed and SECURED and contents relocated,</li> <li>c) If contents contain Emergency Equipment, the equipment must be relocated and accessible for the passenger or the Seat must be considered inoperative, and</li> <li>d) If Emergency Equipment is relocated, passengers must be briefed as to its location.</li> </ul> </li> </ul>
-20-06	Cabin And Galley Storage Compartment / Closet	С	-	-	<ul> <li>(M) May be inoperative provided: <ul> <li>a) Procedures are established to secure Compartment CLOSED,</li> <li>b) Any Emergency Equipment located in affected Compartment is relocated or considered inoperative,</li> <li>c) Affected Compartment is not used for storage of any item(s) except for those permanently affixed, and</li> <li>d) Passengers are briefed on any relocated Emergency Equipment.</li> </ul> </li> </ul>

U. S. DEPARTMENT OF TRANSPORTATION  MASTER MINIMUM EQUIPME FEDERAL AVIATION ADMINISTRATION  AIRCRAFT:  REVISION NO. 4  PAGE NO.  DATE: 02/20/2013 25-6  1. REPAIR CATEGORY  SYSTEM,  SEQUENCE NUMBERS & ITEM  2. NUMBER INSTALLED  3. NUMBER REQUIRED FOR DISPA	тсн	
FEDERAL AVIATION ADMINISTRATION  AIRCRAFT: REVISION NO. 4 PAGE NO. LEARJET 45 DATE: 02/20/2013 25-6  1. REPAIR CATEGORY SYSTEM, 2. NUMBER INSTALLED	тсн	
LEARJET 45  DATE: 02/20/2013  1. REPAIR CATEGORY 2. NUMBER INSTALLED		
1. REPAIR CATEGORY SYSTEM, 2. NUMBER INSTALLED		
SYSTEM, 2. NUMBER INSTALLED		- 1
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ISEQUENCE NUMBERS & HEM I I IS. NUMBER REQUIRED FOR DISLA		-
4. REMARKS AND EXCEPTION	S	-
25 EQUIPMENT/ FURNISHINGS		
-20-07 Interior Cabinet Door / Drawer / Latch  D - (M) May be inoperative or missing provided: a) If inoperative, Door / Drawer the CLOSED Position and SECURED, and b) If missing, unsecured content the Cabinet are REMOVED.	nts of	1
-50-01 Aft Cabin Baggage Compartment Restraint System C - Handle Baggage Compartment remains EM		l
-60-01 Emergency Medical Equipment	I	
-01 Automatic External Defibrillator (AED) And / Or Associated Equipment  A - 0 (O) May be incomplete, missing or inoperative provided:  a) AED is resealed in a manne will identify it as a unit that complete be mistaken for a fully service unit, and  b) Repairs or replacements are within one (1) flight.	cannot       ceable	
D - Any in excess of those required by may be incomplete, missing, or inoperative.	14 CFR       	
(Continued)		

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	LEARJET 45	DA	TE:	02/2	20/2013 25-7	
	_	1. R			CATEGORY	
SYSTEM			2.		MBER INSTALLED	
SEQUEN	ICE NUMBERS & ITEM			3.1	NUMBER REQUIRED FOR DISPATCH  4. REMARKS AND EXCEPTIONS	
25	EQUIPMENT/ FURNISHINGS				1. REMINING THE EXCELLITIONS	T
-60-01	Emergency Medical Equipment (Continued)					
-02	Emergency Medical Kit (EMK) And / Or Associated Equipment	A	-	0	<ul> <li>(O) May be incomplete, missing or inoperative provided:</li> <li>a) EMK is sealed in a manner that will identify it as a unit that cannot be mistaken for a fully serviceable unit, and</li> <li>b) Repairs or replacements are made within one (1) flight.</li> </ul>	
		D	-	0	Any in excess of those required by 14 CFF may be incomplete, missing or inoperative	
-03	First Aid Kit (FAK) And / Or Associated Equipment	A	-	-	<ul> <li>(O) If more than one (1) is required by 14 CFR, only one (1) of the required FAK's may be incomplete, missing or inoperative provided: <ul> <li>a) FAK is resealed in a manner that will identify it as a Unit that cannot be mistaken for a fully serviceable Unit, and</li> <li>b) Repairs or replacements are made within one (1) flight.</li> </ul> </li> </ul>	
		D	-	-	Any in excess of those required by 14 CFF may be incomplete, missing or inoperative	
-60-02	Flotation Device And Equipment	D	-	-	Any in excess of those required by 14 CFF may be inoperative or missing.	

	TMENT OF TRANSPOR' VIATION ADMINISTRA				MASTER MINIMUM EQUIPMENT LIST
<u>FEDERAL A</u> AIRCRAFT:	VIATION ADMINISTRA			ON	NO. 4 PAGE NO.
	LEARJET 45				20/2013 PAGE NO. 25-8
	LLANGL 1 43	+			CATEGORY
SYSTEM,		1. N			MBER INSTALLED
	NUMBERS & ITEM		۷.		NUMBER REQUIRED FOR DISPATCH
BEQUEITEE	TOMBERS & ITEM			3.1	4. REMARKS AND EXCEPTIONS
	QUIPMENT/ IRNISHINGS				
	nergency Locator ansmitter (ELT)				
-01 Su	rvival Type ELTs	D	_	_	Any in excess of those required by 14 CFR may be inoperative or missing.
-02 Fix	red ELTs	A	_	0	<ul><li>(M) May be inoperative provided:</li><li>a) System is deactivated, and</li><li>b) Repairs are made within ninety (90) days.</li></ul>
		A	_	0	May be missing provided repairs are made within ninety (90) days.
		D	_	_	(M) Any in excess of those required by 14 CFR may be inoperative provided system is deactivated.
		D	_	_	Any in excess of those required by 14 CFR may be missing.

U. S. DE	PARTMENT OF TRANSPOR'	TATI	ON			
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AIRCRA				-	NO. 4 PAGE NO.	
	LEARJET 45	_			20/2013 26-1	
CNOTEN	r	1. R			CATEGORY	
SYSTEM			2. 1		MBER INSTALLED	
SEQUEN	ICE NUMBERS & ITEM			3.1	NUMBER REQUIRED FOR DISPATCH  4. REMARKS AND EXCEPTIONS	
					4. REMARKS AND EXCELLIONS	
-00-01	Cargo Compartment Fire Detection / Suppression Systems				Deleted, Revision 4.	
-12-01	Auxiliary Power Unit (APU) Fire Detection System (LR-45)	С	1	0	(M) May be inoperative provided Auxiliary Power Unit (APU) is considered inoperative.	
-13-01	Bleed Air Leak Warning System	С	2	1	One may be inoperative provided:  a) Associated Bleed Switch is OFF, b) Aircraft is operated at 25,000 feet MSL or below, and c) Aircraft is not operated in known or forecast icing conditions.	
		С	2	0	May be inoperative provided:  a) Both Bleed Switches are OFF, b) Aircraft is operated unpressurized at 9,000 feet MSL or below, and c) Aircraft is not operated in known or forecast icing conditions.	
-21-01	Fire Extinguisher Bottle Thermal And Discharge Indicator Disk	С	2	0	May be missing provided Bottle pressures are in accordance with the AFM.	

U. S. DEI	PARTMENT OF TRANSPORT	ΓΑΤΙ	ON		
				MASTER MINIMUM EQUIPMENT LIST	
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AIRCRA	FT:	RE	VISI	ON	NO. 4 PAGE NO.
	LEARJET 45	DA'	TE:	02/2	20/2013 26-2
		1. R	EPA	AIR (	CATEGORY
SYSTEM	[,		2. ]	<u>NUN</u>	MBER INSTALLED
SEQUEN	ICE NUMBERS & ITEM			3.1	NUMBER REQUIRED FOR DISPATCH
_					4. REMARKS AND EXCEPTIONS
26	FIRE PROTECTION				
-21-02	Auxiliary Power Unit (APU)	С	1	0	(M) May be inoperative provided Auxiliary
	Fire Extinguisher Bottle				Power Unit (APU) is considered
	(LR-45)				inoperative.
-22-01	Portable Fire Extinguisher	D	_	_	Any in excess of those required by 14 CFR
	3.1.1				may be inoperative or missing provided:
					a) The inoperative Fire Extinguisher is
					tagged INOPERATIVE, removed
					from the installed location and
					placed out of sight so it cannot be
					mistaken for a functional Unit, and
					b) Required distribution is maintained.

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AIRCRA	FT:	RE	VISI	ON	NO. 4	PAGE NO.			
	LEARJET 45	DA	TE:	02/2	20/2013	27-1			
		1. R	EP/	AIR (	CATEGORY				
SYSTEM	[,		2.	<u>NUN</u>	MBER INSTALL	ED			
SEQUEN	ICE NUMBERS & ITEM			3.1		IRED FOR DISPATCH			
					4. REMARKS A	AND EXCEPTIONS			
27	FLIGHT CONTROLS								
-00-01	Rudder Pedal FWD / AFT	С	2	0	May be inoperat	tive provided the flight crew	h		
	Switch		_			y operate the Rudder	li		
						kes throughout their	ľ		
						of motion on the affected	1		
					side while in the	SEATED position.	ĺ		
-00-02	PFD Low Speed Cues				Relief moved to	34-18-01, Revision 4.	1		
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AIRCRA	FT:	RE	VISI	ON	NO. 4 PAGE NO.
	LEARJET 45	DA	TE:	02/2	20/2013 28-1
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SEQUEN	ICE NUMBERS & ITEM			3. ľ	NUMBER REQUIRED FOR DISPATCH  4. REMARKS AND EXCEPTIONS
					4. REMARKS AND EXCEPTIONS
28	FUEL				
10.01	Fuel Can Retention Cable	С	1	0	
-10-01	Fuel Cap Retention Cable (SPPR System)			U	
	(er i it eyetem)				
-20-01	Single Point Pressure Refuel	С	1	0	
	(SPPR) System				
-40-01	L STBY Switch Indicator	С	1	0	May be inoperative provided L STBY
	(Light Function Only)				PUMP ON CAS message is displayed     when selected.
					When selected.
-40-02	R STBY Switch Indicator	С	1	0	May be inoperative provided R STBY
	(Light Function Only)				PUMP ON CAS message is displayed
					when selected.
		_			
-40-03	XFLOW Switch Indicator	С	1	0	May be inoperative provided FUEL XFLO
	(Light Function Only)				OPEN CAS message is displayed when selected.
-40-04	FUEL USED RESET Button	С	1	0	(O) May be inoperative provided alternate
					procedures are established and used to
					determine fuel burn.
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U. S. DE	PARTMENT OF TRANSPOR	TATI	ON		MASTER MINIMUM EQUIPMENT LIST
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AIRCRA	FT:	RE	VISI	ON	NO. 4 PAGE NO.
	LEARJET 45				20/2013 28-2
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	ICE NUMBERS & ITEM		Z		MBER INSTALLED NUMBER REQUIRED FOR DISPATCH
					4. REMARKS AND EXCEPTIONS
28	FUEL				
-41-01	Refueling Panel Fuel	С	1	0	May be inoperative provided fuel quantity
-41-01	Quantity Indicator		'	0	is determined using Flight Deck Fuel
	•				Quantity Indicators.
-42-01	Right Wing Fuel Probe	A	7	6	(O) One (1) may be inoperative provided:
72 01	(R FUEL QTY FAULT)	^	<b>'</b>		a) Both Flight Deck Fuel Quantity
					Indicators are OPERATIVE,
					b) Both Wing Tanks are filled with fuel and quantity is verified, and
					c) Amber Dashes do not display on
					indicator, and
					d) Repairs are made within three (3)     flight days.
-42-02	Left Wing Fuel Probe (L FUEL QTY FAULT)	Α	7	6	(O) One (1) may be inoperative provided:  a) Both Flight Deck Fuel Quantity
	(LIOLL QIIIAOLI)				Indicators are OPERATIVE,
					b) Both Wing Tanks are filled with fuel
					and quantity is verified, and c) Amber Dashes do not display on
					indicator, and
					d) Repairs are made within three (3)
					flight days.

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FEDERA	L AVIATION ADMINISTRAT	ΓΙΟΝ	1		MASTER MINIMUM EQUIPMENT LIST
AIRCRA		1		ON N	NO. 4 PAGE NO.
	LEARJET 45	DA	TE:	02/20	0/2013 30-1
	_	1. R			CATEGORY
SYSTEM			2.		IBER INSTALLED
SEQUEN	ICE NUMBERS & ITEM				UMBER REQUIRED FOR DISPATCH 4. REMARKS AND EXCEPTIONS
					4. REMARKS AND EACEFTIONS
-00-01	Angle Of Attack Vane Heat (L or R AOA HT FAIL)	С	2	1	One (1) may be inoperative provided:  a) Aircraft is not operated in visible moisture with Static Air  Temperature (SAT) below +10 degrees C, and  b) Aircraft is not operated in known or forecast icing conditions.
-00-02	SAT Probe Heat (SAT HT FAIL)	С	1	0	One (1) may be inoperative provided:  a) Aircraft is not operated in visible moisture with Static Air  Temperature (SAT) below +10 degrees C, and  b) Aircraft is not operated in known or forecast icing conditions.
-00-03	L and / or R PROBES Switch Indicator (Light Function Only)	С	2	0	May be inoperative provided the associated Probe Heat is verified to be OPERATIVE.
-10-01	Wing / Stabilizer Anti-Ice System	С	1	0	May be inoperative OFF provided:  a) Aircraft is not operated in visible moisture with Static Air Temperature (SAT) below +10 degrees C, and b) Aircraft is not operated in known or forecast icing conditions.

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AIRCRA					NO. 4 PAGE NO.
	LEARJET 45				0/2013 30-2
SYSTEM	ſ	1. K			CATEGORY IBER INSTALLED
	ICE NUMBERS & ITEM		2.		TUMBER REQUIRED FOR DISPATCH
					4. REMARKS AND EXCEPTIONS
30	ICE & RAIN PROTECTION				
-10-02	WING / STAB Switch Indicator (Light Function Only)	С	1	0	May be inoperative provided Anti-Ice System is verified operative during AFM Normal Procedures - Starting Engines.
-10-03	Wing / Stab Leak Warning System	С	1	0	May be inoperative provided:  a) WING / STAB Anti-Ice Switch is OFF,  b) Aircraft is not operated in visible moisture with Static Air Temperature (SAT) below +10 degrees C, and c) Aircraft is not operated in known or forecast icing conditions.
-20-01	Nacelle Anti-Ice System	С	2	1	One (1) may be inoperative OFF provided:  a) Aircraft is not operated in visible moisture with Static Air Temperature (SAT) below +10 degrees C, and b) Aircraft is not operated in known or forecast icing conditions.
-20-02	L and / or R NAC Switch Indicator (Light Function Only)	С	2	0	May be inoperative provided left and / or right green NAC EI message is displayed when selected.

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AIRCRAFT:			ON N	IO. 4 PAGE NO.	1
LEARJET 45			-	0/2013 30-3	
	_			ATEGORY	1
SYSTEM,				BER INSTALLED	
SEQUENCE NUMBERS & ITEM				UMBER REQUIRED FOR DISPATCH	
				4. REMARKS AND EXCEPTIONS	Ц
30 ICE & RAIN PROTECTION					
-30-01 Pitot-Static Probe Heater	В	3	2	One (1) may be inoperative provided:  a) Aircraft is not operated in visible moisture with Static Air Temperature (SAT) below +10 degrees C,  b) Aircraft is not operated in known or forecast icing conditions, and c) Aircraft is operated in day VMC ONLY.  NOTE 1: Both Left and Right Pitot-Static Probe Heaters must be Operative for RVSM operations.  NOTE 2: Left Pitot-Static Probe Heat Switch controls forward and aft Drain Mast Heaters.	
	В	3	1	Two (2) may be inoperative provided:  a) Aircraft is not operated in visible moisture with Static Air Temperature (SAT) below +10 degrees C,  b) Aircraft is not operated in known or forecast icing conditions, and c) Aircraft is operated in day VMC ONLY.  NOTE 1: Both Left and Right Pitot-Static Probe Heaters must be Operative for RVSM operations.	
				Switch controls forward and aft Drain Mast Heaters.	

AIRCRA	L AVIATION ADMINISTRA'			ON N	NO. 4 PAGE NO.
AIRCKA	LEARJET 45				0/2013 TAGE NO. 30-4
	BBI WWBI 10				CATEGORY
SYSTEM SEQUEN	I, ICE NUMBERS & ITEM		2. 1		IBER INSTALLED IUMBER REQUIRED FOR DISPATCH 4. REMARKS AND EXCEPTIONS
	ICE & RAIN PROTECTION				
-30-02	Pitot Heat Indicating System	В	-	0	May be inoperative provided:  a) All other Elements of the Pitot Heat System operate normally, and b) The aircraft is not operated into known or forecast icing conditions.
-40-01	Windshield Heat (L / R WSHLD OVHT or L / R WSHLD HT FAIL)	С	2	0	May be inoperative OFF provided:  a) Aircraft is not operated in known or forecast icing conditions, and b) Meteorological conditions at point of intended landing are acceptable to the flight crew.
-40-02	Windshield Heat (L / R WSHLD HT FAULT)	В	2	1	White 'L or R WSHLD HT FAULT' CAS message may be displayed provided operations are not conducted in known or forecast icing conditions.
-40-03	L And / Or R WSHLD Switch Indicator (Light Function Only)				Deleted, Revision 4.
-70-01	Drain Mast Heater	С	1	0	

U. S. DEPARTMENT OF TRANSPORT	ГАТІ	ON			٦
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LEARJET 45	DA	TE:	02/2	0/2013 30-5	
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SEQUENCE NUMBERS & ITEM			3. N	UMBER REQUIRED FOR DISPATCH	
				4. REMARKS AND EXCEPTIONS	
30 ICE & RAIN PROTECTION					
-80-01 Ice Detector System	С	1	0	May be inoperative provided Wing /	١
,				Stabilizer Anti-Ice System and Nacelle	'
				Anti / Ice System are ON prior to	
				operating in visible moisture with Static	
				Air Temperature (SAT) between +10	
				degrees C and -40 degrees C.	
	С	1	0	May be inoperative provided Wing /	
				Stabilizer Anti-Ice System and Nacelle	
				Anti / Ice System are ON prior to	
				operating at night with Static Air	
				Temperature (SAT) between +10 degrees	
				C and -40 degrees C.	

AIRCRA	L AVIATION ADMINISTRA' FT:	REVISION NO. 4 PAGE NO.						
	LEARJET 45			-	20/2013 31-1			
					CATEGORY			
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SEQUEN	CE NUMBERS & ITEM			3. I	NUMBER REQUIRED FOR DISPATCH			
					4. REMARKS AND EXCEPTIONS			
31	INDICATING/ RECORDING SYSTEMS							
-20-01 ***	Flight Hour Meter	С	-	0	(O) May be inoperative provided alternate procedures to record flight time is established and used.			
-20-02	Static Air Temperature (SAT)	В	1	0	May be inoperative provided:  a) Ice Detector is operative, and b) Nacelle and Wing / Stabilizer Anti- Ice Systems are turned ON when in visible moisture or at night.			
-20-03 ***	Angle Of Attack (AOA) Indicator (Including Back Lighting)	С	-	0				
-20-04	Clock	С	-	0	As required by 14 CFR.			
-30-01	Flight Data Recorder (FDR) System							
-01	For Air Carrier Or Commercial Operators	С	-	-	Any in excess of those required by 14 CFR may be inoperative.			
					(Continued)			

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	LEARJET 45	DATE: 02/2			20/2013	31-2
~~~~	-				CATEGORY	
SYSTEM			2.		MBER INSTA	
SEQUEN	ICE NUMBERS & ITEM			3. 1		QUIRED FOR DISPATCH S AND EXCEPTIONS
31	INDICATING/ RECORDING SYSTEMS				4. KLWAKK	S AND EXCELLIONS
-30-01	Flight Data Recorder (FDR) System (Continued)					
-01	For Air Carrier Or Commercial Operators (Continued)					
	Includes FDR function of Combined Voice and Flight Data Recorder (CVFDR)	A	-	0	a) Cockpopera b) Airpla design opera 1. Th pu 2. Th bu c) In those attemple aircrafe flight of repair to disp	erative provided: bit Voice Recorder (CVR) tes normally, ne is not dispatched from a nated airport as listed in the tor's MEL unless: ne FDR failure occurs after ushback but prior to takeoff, or ne FDR repair was attempted at was not successful, se cases where repair is pted but not successful, the ft may be dispatched on a for series of flights until the designated airport where must be accomplished prior patch, and frs are made within three (3) days.
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AIRCRAFT:			VISI	ON	NO. 4	PAGE NO.
	LEARJET 45				20/2013	31-3
	_	1. R			CATEGORY	
SYSTEM	·		2.		MBER INSTAL	
SEQUEN	ICE NUMBERS & ITEM			3. 1		UIRED FOR DISPATCH AND EXCEPTIONS
31	INDICATING/ RECORDING SYSTEMS				4. KEWAKKS	AND EACEF HONS
-30-01	Flight Data Recorder (FDR) System (Continued)					
-01	For Air Carrier Or Commercial Operators (Continued)					
-01	FDR Recording Parameters Required By 14 CFR	A	-	-	be inoperative a) Cockpit operate b) Repairs	recording parameters may provided: Voice Recorder (CVR) as normally, and are made within twenty endar days.
-02	Property Pro	A	-	-		ative provided repairs are completion of the next ection.
-02	Operators Other Than Holders Of Air Carrier Or Commercial Operator Certificates	С	-	1	Any in excess of may be inoperated	of those required by 14 CFR ative.
		A	-	0		ative provided repairs are dance with applicable 14

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	LEARJET 45	DA	TE:	02/2	20/2013 31-4	
		1. R	EPA	AIR (	CATEGORY	
SYSTEM,			2. ]		MBER INSTALLED	
SEQUENC	CE NUMBERS & ITEM			3.1	NUMBER REQUIRED FOR DISPATCH	
T					4. REMARKS AND EXCEPTIONS	_
	INDICATING/ RECORDING SYSTEMS					
	Master WARN / CAUT Switch Indicator (Light Function Only)	С	2	1		
	Crew Warning Panel (CWP) Annunciation Light	В	22	0	May be inoperative provided:  a) Both Master WARN / CAUT Switch Indicators are operative, b) Crew Advisory System (CAS) is operative, c) Aural Master Warning is operative, and d) EMER BATT Switch Indicator must be operative if CWP EMER BATT Light is inoperative.	
-60-01	Display Unit	A	4	3	One (1) Inboard Display Unit may be inoperative for one (1) flight day provided:  a) Display Unit Reversion Knobs are operative, and  b) Both Radio Management Units are operative.	
-60-02	Display Unit Reversion Knob	В	2	1	One (1) may be inoperative provided:  a) Associated Switch must be inoperative with NORM selected, and b) Magnetic Compass is operative.	

FEDER A	L AVIATION ADMINISTRAT	ΓΙΩΝ	J		MASTER MINIMUM EQUIPMENT LIS	1			
AIRCRA		1		ON	NO. 4 PAGE NO.				
	LEARJET 45	DATE: 02							
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SEQUEN	ICE NUMBERS & ITEM		3. NUMBER REQUIRED FOR DISPATCH						
					4. REMARKS AND EXCEPTIONS	T			
31	INDICATING/ RECORDING SYSTEMS								
-60-03	Display Unit Controller								
-01	In/HPa Switch	С	2	1	One (1) may be inoperative provided alternate procedures are used if necessary to set barometric pressure.				
-02	CUE, FPA, HSI & WX Switch	С	8	0					
-03	FMS Switch	С	2	0	(O) May be inoperative provided displayed navigation source is acceptable to the flight crew.				
-04	NAV Switch	С	2	1	One (1) may be inoperative.				
-05	Bearing Pointer Knob	С	4	0	May be inoperative unless required for NDB navigation.				
					(Continued)				

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AIRCRA		1		ON	NO. 4 PAGE NO.					
	LEARJET 45	DA	TE:	02/2	20/2013 31-6					
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SYSTEM			2. NUMBER INSTALLED							
SEQUEN	CE NUMBERS & ITEM				NUMBER REQUIRED FOR DISPATCH  4. REMARKS AND EXCEPTIONS					
31	INDICATING/ RECORDING SYSTEMS				T. REIMARKS THAD EXCELLITIONS					
-60-03	Display Unit Controller (Continued)									
-06	Push-To-Test / Dim Knob									
-01	Push-To-Test Mode	С	2	0						
-02	Bright / Dim Mode	С	4	0	May be inoperative provided lighting   intensity is acceptable to the crew.					
					NOTE: If lighting intensity is unacceptable to the flight crew, the Display Unit shall be considered inoperative.					
-60-04	MINIMUMS Knob	С	2	0	(O) May be inoperative provided alternate procedures are established and used.					
-60-05	RA / BARO Switch	С	2	0	(O) May be inoperative provided alternate procedures are established and used.					
-60-06	Barometric STD Switch	С	2	0						

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AIRCRAFT:			-	NO. 4	PAGE NO.					
LEARJET 45				20/2013	32-1					
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SEQUENCE NUMBERS & ITEM			3. T		IRED FOR DISPATCH AND EXCEPTIONS	-				
				4. KEWIAKKS A	AND EXCELLIONS					
32 LANDING GEAR										
-40-01 Brake System	A	-	-	FAULT CAS Me a) Procedu V, Perfor	atched with White BRAKE ssage provided: res referenced in Section mance, of the AFM for d takeoff and landing					
					s are complied with, and are made within five (5)	I				
-41-01 Anti-Skid System	С	1	0		rive provided aircraft is ordance with AFM.					
-50-01 Nose Wheel Steering System				Deleted, Revision	on 4.					

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AIRCRA					NO. 4	PAGE NO.			
	LEARJET 45				/20/2013 33-1				
CVCTEM	ī	1. R	1. REPAIR CATEGORY						
SYSTEM	I, ICE NUMBERS & ITEM		2. NUMBER INSTALLED  3. NUMBER REQUIRED FOR DISPATO						
SEQUEIV	CE NOWIDERS & ITEM			3.1		AND EXCEPTIONS			
33	LIGHTS								
-10-01	Flight Deck Annunciator and / or Instrument Panel Light Dimming Function	С	1	0	May be inopera ONLY.	tive for daylight operations	1		
-10-02	Landing Gear Control Panel Assembly / Position Light								
-01	Nose Transit (White & Black Lamp)	С	2	1	adjacent Lamp	inoperative provided the illuminating the same Function is operative.	I		
-02	Nose DOWN (Green Lamp)	С	2	1	adjacent Lamp i	inoperative provided the illuminating the same Function is operative.	I		
-03	Left Transit (White & Black Lamp)	С	2	1	adjacent Lamp i	inoperative provided the illuminating the same Function is operative.	I		
-04	Left DOWN (Green Lamp)	С	2	1	adjacent Lamp i	inoperative provided the illuminating the same Function is operative.	I		
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AIRCRA		RE	VISI		NO. 4 PAGE NO. 33-2
SYSTEM SEQUEN 33	I, ICE NUMBERS & ITEM LIGHTS	3. NUMBER		<u>NUN</u>	CATEGORY MBER INSTALLED NUMBER REQUIRED FOR DISPATCH 4. REMARKS AND EXCEPTIONS
-10-02	Landing Gear Control Panel Assembly / Position Light (Continued)				
-05	Right Transit (White & Black Lamp)	С	2	1	One (1) may be inoperative provided the adjacent Lamp illuminating the same Nomenclature / Function is operative.
-06	Right DOWN (Green Lamp)	С	2	1	One (1) may be inoperative provided the adjacent Lamp illuminating the same Nomenclature / Function is operative.
-10-03	Flight Deck / Flight Compartment and Instrument Lighting System (Including Back Lighting)	С	-	-	Individual Lights may be inoperative provided remaining Lighting System lights are:  a) Not required for an emergency procedure, b) Sufficient to clearly illuminate all required instruments, controls, and other devices for which it is provided, c) Positioned so that direct rays are shielded from flight crewmembers eyes, and d) Lighting configuration and intensity is acceptable to the flight crew.  NOTE: Individual button/switch lights and/or annunciations/indications are excluded from this relief.

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FEDER A	L AVIATION ADMINISTRAT	ΓΙΩΝ	J		MASTER MI	NIMUM EQUIPMENT LIS	T
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SYSTEM			EPA	AIR ( NUN	CATEGORY MBER INSTALL		
SEQUEN	CE NUMBERS & HEM			3.1		AND EXCEPTIONS	
33	LIGHTS						
-10-04	EFIS Display Controller Backlighting	С	2	0		tive provided lighting acceptable to the flight	
-10-05	Flight Deck Map Light	С	2	0			I
-10-06	Flight Deck Push Button Switch / Annunciator (PBS / PBA) Light	В	-	-		ent module may have one tive provided the emains legible.	
-20-01	Entry Light	С	1	0		tive provided sufficient illuminates the Steps.	
-20-02	Cabin Interior Lighting System (Excludes Cabin Emergency Lighting System)	С	-	0		tive provided lighting acceptable to the flight	
-20-03	Passenger Lighted Information Sign	С	-	-	Passenger Seat occupied provid a) PA Syste b) PA Syste passeng	perative and associated tor Lavatory may be led: em operates normally, and em is used to notify lers and Cabin crew when ed Sign(s) are placed ON	
-01	For 14 CFR 91 Operations And Operations Not Requiring Use Of PA System	С	-	-		perative provided alternate established and used to cupants.	

U. S. DE	PARTMENT OF TRANSPORT	ΓAΤΙ	ON		MASTER MINIMUM EQUIPMENT LIS	<u> </u>			
FEDERA	L AVIATION ADMINISTRA	ΓΙΟΝ	1		William Committee and the Committee of t	-			
AIRCRA	FT:	RE	VISI	ON	NO. 4 PAGE NO.				
	LEARJET 45	_			20/2013 33-4				
OX COPPLY		1. REPAIR CATEGORY							
SYSTEM	I, ICE NUMBERS & ITEM		2. NUMBER INSTALLED  3. NUMBER REQUIRED FOR DISPATCH						
SEQUEN	CE NOMBERS & ITEM			3.1	4. REMARKS AND EXCEPTIONS				
33	LIGHTS								
-20-04	Lavatory Reading Light	С	1	0		I			
-20-05	Lavatory Vanity Light	С	2	0		I			
-30-01	Service Light					I			
-01	Baggage	С	-	0		I			
-02	Tailcone	С	-	0					
-03	Maintenance	С	-	0		I			
-40-01 ***	Baggage Door / Pylon External Light	С	2	0					
-40-02	Position (NAV) Light System	С	1	0	May be inoperative provided aircraft is not operated at night.	ı			
					NOTE: On aircraft equipped with LED Navigation Light System, if any LEDs are inoperative, the entire assembly is considered inoperative.				

FEDER A	L AVIATION ADMINISTRA	TION	J			Т
AIRCRA		_		ON	NO. 4 PAGE NO.	
	LEARJET 45	DA	TE:	02/2	20/2013 33-5	
		1. R	EP/	AIR (	CATEGORY	
SYSTEM	·		2.		MBER INSTALLED	
SEQUEN	CE NUMBERS & ITEM			3. 1	NUMBER REQUIRED FOR DISPATCH  4. REMARKS AND EXCEPTIONS	
20	LICUTO				4. REMARKS AND EACEF HONS	T
33	LIGHTS					
-40-03	Recognition Light	С	2	0		
10 00	rteooge. Ligin		_			
-40-04	Pulse Light System	С	-	0		
***						
-40-05	Anti-Collision Light System					
	•					
-01	Beacon Light	С	2	0	May be inoperative provided Navigation	
					Lights are used for night ground operations.	
					operations.	
-02	Strobe Light	С	2	0	May be inoperative provided aircraft is not	
					operated at night.	
40.00	Tavi Limba					
-40-06	Taxi Light	С	2	0		
-40-07	Landing Light	С	2	1	One (1) may be inoperative.	
	5 5					
		С	2	0	May be inoperative provided both	
					Recognition Lights are operative.	
		С	2	0	May be inoperative provided both Taxi	
			_		Lights are operative.	
		С	2	0	May be inoperative provided aircraft is not	
					operated at night.	

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AIRCRA	<u>L AVIATION ADMINISTRA'</u> FT:			ON	NO. 4 PAGE NO.
	LEARJET 45	DA	TE:	02/2	20/2013 33-6
		1. R	EPA	AIR (	CATEGORY
SYSTEM			2.		MBER INSTALLED
SEQUEN	ICE NUMBERS & ITEM			3. [	NUMBER REQUIRED FOR DISPATCH
					4. REMARKS AND EXCEPTIONS
33	LIGHTS				
-40-08	Landing / Recognition Light Lens	С	2	0	<ul> <li>(M) May be inoperative provided:</li> <li>a) Affected Landing / Recognition</li> <li>Light is deactivated, and</li> <li>b) Affected Landing / Recognition</li> <li>Light Lens is covered.</li> </ul>
-40-09 ***	Logo Light System	D	-	0	
-40-10	Wing Inspection Light	С	1	0	May be inoperative provided:  a) Primary Ice Detection system is operative, and b) Ground deicing procedures do not require use of Wing Inspection Light.
-50-01	Flight Deck Flashlight And Holder Assembly				
-01	Flashlight	С	2	0	May be inoperative provided crewmember assigned to the associated Seat has a Flashlight with at least two (2) D Cell Batteries, or equivalent, in good working order.
-02	Flashlight Holder	D	2	0	
-50-02	Exterior Emergency Lighting System	С	1	0	May be inoperative provided aircraft is not operated at night.

U. S. DEPARTMENT OF TRANSPORT	[ATI	ON					
		MASTER MINIMUM EQUIPMENT					
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LEARJET 45	DA	ГЕ:	02/2	20/2013	33-7		
	1. R			CATEGORY			
SYSTEM,		2. N	<u>NUN</u>	<u> IBER INSTALL</u>	ED		
SEQUENCE NUMBERS & ITEM		3. N <u>UMBER REQUIRED FOR DISPATC</u>					
				4. REMARKS	AND EXCEPTIONS		
33 LIGHTS							
-50-03 Floor Proximity Emergency Escape Path Marking System				Deleted, Revision	on 4.		

AIRCRA	<u>.L AVIATION ADMINISTRA</u> FT:			ON	NO. 4 PAGE NO.	_
	LEARJET 45	DA	TE:	02/2	20/2013 34-1	
SYSTEM SEQUEN	I, ICE NUMBERS & ITEM	1. R		<u>NUN</u>	CATEGORY MBER INSTALLED NUMBER REQUIRED FOR DISPATCH 4. REMARKS AND EXCEPTIONS	_
34	NAVIGATION					
-00-01	MFD Joystick	С	1	0		
-00-02	Heading Selector Knob	В	1	0		
-00-03	Course Selector Knob	В	2	1	One (1) may be inoperative.	
-00-04	Speed Selector / Vertical Speed Knob	С	1	0		
-00-05	Radio Management Unit (RMU)				Relief moved to 23-50-05, Revision 4.	
-10-01	Reversion Switch (IC / SG, ADC, AHRS, DAU)				Deleted, Revision 4.	
-10-05	Touch Control Steering (TCS) Switch				Relief moved to 22-10-05, Revision 4.	

U. S. DE	PARTMENT OF TRANSPORT	ГАТІ	ON		MASTED MI	NIMUM EQUIPMENT LIS	т
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AIRCRA		RE	VISI	ON	NO. 4	PAGE NO.	
	LEARJET 45	+			20/2013	34-2	
CMCTEM	ī	1. R			CATEGORY ADED INSTALL	FD	
SYSTEM	ı, ICE NUMBERS & ITEM		2.		MBER INSTALL	JIRED FOR DISPATCH	
BLQCLI	CE NOWBERS & ITEM			3.1		AND EXCEPTIONS	
34	NAVIGATION						
-16-01	Altitude Alerting System	A	-	0	a) Autopilot altitude of b) Enroute its use, c) Airplane designat operator replacem		
-01	Aural Alert	С	-	0	b) Autopilot	tive provided: lert operates normally, and t with Altitude Hold and Capture operates normally.	
-02	Visual Alert	С	-	0	b) Autopilot	tive provided: ert operates normally, and t with Altitude Hold and Capture operates normally.	
-18-01	PFD Low Speed Awareness (LSA) Cue/Bar	С	2	1			
		С	2	0		tive provided both Angle- tors are installed and	

2U. S. DI	EPARTMENT OF TRANSPOR	ТАТ	ION	1		
20.5.21			101	•	MASTER MINIMUM EQUIPMENT LIST	Т
	L AVIATION ADMINISTRAT	1				
AIRCRA					NO. 4 PAGE NO.	
	LEARJET 45				20/2013 34-3	
SYSTEM		1. K			CATEGORY MBER INSTALLED	
	ICE NUMBERS & ITEM		<b>∠.</b> 1		NUMBER REQUIRED FOR DISPATCH	
bLQCL				3.1	4. REMARKS AND EXCEPTIONS	
34	NAVIGATION					
-21-01	Standby Attitude Indicator				Deleted Revision 4.	I
-23-01	Non-Stabilized Magnetic Compass	В	1	0	(O) May be inoperative provided any combination of three (3) Gyro or INS (IRU) Stabilized Compass Systems are operative.	
		В	1	0	<ul> <li>(O) May be inoperative provided:</li> <li>a) Any combination of two (2) Gyro or INS (IRU) Stabilized Compass Systems operate normally, and</li> <li>b) Airplane is operated with dual independent navigation capability and under Positive Radar Control by ATC on the enroute portion of the flight.</li> </ul>	1
		В	1	0	(O) May be inoperative for flights that are entirely within areas of magnetic unreliability provided at least two (2) Stabilized Directional Gyro Systems are installed, operate normally, and used in conjunction with approved Free Gyro Navigation Techniques.	1
-31-01	VHF Omni-Directional Range (VOR)	С	-	0	As required by 14 CFR.	1

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EEDER A	L AVIATION ADMINISTRA	TION	J		MASTER MI	NIMUM EQUIPMENT LIS	T
AIRCRA		RE	VISI	-	NO. 4 20/2013	PAGE NO. 34-4	
CNOTEN		-	EPA	AIR (	CATEGORY	I	
SYSTEM SEQUEN	I, ICE NUMBERS & ITEM		2.			JIRED FOR DISPATCH AND EXCEPTIONS	
34	NAVIGATION					AND BITCH ITOTAL	
-31-02	ILS Localizer (LOC)	С	-	0	As required by 1	4 CFR.	I
-32-01	ILS Glide Slope (GS)	С	-	0	As required by 1	14 CFR.	I
-33-01	Microwave Landing System (MLS)	D	-	0	As required by 1	14 CFR.	1
-34-01	Marker Beacon System	С	-	-		tive provided approach not require its use.	I
-36-01	Wind Shear Detection, Guidance And Avoidance System				Deleted, Revision	on 4.	1
-41-01	Inertial Navigation System (INS)	D	-	0	As required by 1	14 CFR.	1
-42-01	Weather Radar System	D	1	0	As required by 1	14 CFR.	I
-44-01	Radio Altimeter	С	-	-		perative provided approach not require its use.	
					Decisior Altitude Tape, G	keoff and Landing Inhibits, n Height (DH) value, Low Awareness on Altitude Sear Warning System, System and GPWS System offected.	

-01 Modes 1-4  A 4 0 (O) May be inoperative provided:  a) Alternate procedures are established and used, and	IRCRA	FT:	RE	VISI	ON	NO. 4 PAGE NO.	
SYSTEM, SEQUENCE NUMBERS & ITEM  2. NUMBER INSTALLED 3. NUMBER REQUIRED FOR DISPATCH 4. REMARKS AND EXCEPTIONS  34 NAVIGATION  -44-02 Terrain Awareness And Warning System (TAWS)  Class A TAWS Equipment Required  A 1 0 (O) May be inoperative provided: a) Alternate procedures are established and used, and b) Repairs are made within two (2) flight days.  -01 Modes 1-4  A 4 0 (O) May be inoperative provided: a) Alternate procedures are established and used, and b) Repairs are made within two (2)		LEARJET 45	DA	TE:	02/	20/2013 34-5	
3. NUMBER REQUIRED FOR DISPATCE 4. REMARKS AND EXCEPTIONS  34 NAVIGATION  -44-02 Terrain Awareness And Warning System (TAWS)  Class A TAWS Equipment Required  -01 Ground Proximity Warning System (GPWS)  A 1 0 (O) May be inoperative provided: a) Alternate procedures are established and used, and b) Repairs are made within two (2) flight days.  -01 Modes 1-4  A 4 0 (O) May be inoperative provided: a) Alternate procedures are established and used, and b) Repairs are made within two (2)			1. R	EP/	۱R	CATEGORY	
4. REMARKS AND EXCEPTIONS  6. Color of the provided:  a) Alternate procedures are established and used, and b) Repairs are made within two (2) flight days.		*		2.			
34 NAVIGATION  -44-02 Terrain Awareness And Warning System (TAWS)  Class A TAWS Equipment Required  -01 Ground Proximity Warning System (GPWS)  A 1 0 (O) May be inoperative provided: a) Alternate procedures are established and used, and b) Repairs are made within two (2) flight days.  -01 Modes 1-4  A 4 0 (O) May be inoperative provided: a) Alternate procedures are established and used, and b) Repairs are made within two (2)	EQUEN	CE NUMBERS & ITEM			3. 1		
-44-02 Terrain Awareness And Warning System (TAWS)  Class A TAWS Equipment Required  -01 Ground Proximity Warning System (GPWS)  A 1 0 (O) May be inoperative provided: a) Alternate procedures are established and used, and b) Repairs are made within two (2) flight days.  -01 Modes 1-4  A 4 0 (O) May be inoperative provided: a) Alternate procedures are established and used, and b) Repairs are made within two (2)						4. REMARKS AND EXCEPTIONS	
Class A TAWS Equipment Required  -01 Ground Proximity Warning System (GPWS)  A 1 0 (O) May be inoperative provided: a) Alternate procedures are established and used, and b) Repairs are made within two (2) flight days.  -01 Modes 1-4  A 4 0 (O) May be inoperative provided: a) Alternate procedures are established and used, and b) Repairs are made within two (2)	34	NAVIGATION					
-01 Ground Proximity Warning System (GPWS)  A 1 0 (O) May be inoperative provided: a) Alternate procedures are established and used, and b) Repairs are made within two (2) flight days.  A 4 0 (O) May be inoperative provided: a) Alternate procedures are established and used, and b) Repairs are made within two (2)	-44-02						
System (GPWS)  a) Alternate procedures are established and used, and b) Repairs are made within two (2) flight days.  -01 Modes 1-4  A 4 0 (O) May be inoperative provided: a) Alternate procedures are established and used, and b) Repairs are made within two (2)							
a) Alternate procedures are established and used, and b) Repairs are made within two (2)	-01		A	1	0	<ul><li>a) Alternate procedures are established and used, and</li><li>b) Repairs are made within two (2)</li></ul>	
	-01	Modes 1-4	A	4	0	<ul><li>a) Alternate procedures are established and used, and</li><li>b) Repairs are made within two (2)</li></ul>	
and	-02	Test Mode	A	1	0	<ul><li>a) GPWS is considered inoperative, and</li><li>b) Repairs are made within two (2)</li></ul>	

U. S. DEF	PARTMENT OF TRANSPORT	ΓΑΤΙ	ON		MASTER MINIMUM EQUIPMENT LIS	т
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	LEARJET 45	DA	TE:	02/2	20/2013 34-6	
		1. R			CATEGORY	
SYSTEM			2.		MBER INSTALLED	
SEQUEN	CE NUMBERS & ITEM			3. 1	NUMBER REQUIRED FOR DISPATCH	
<u> </u>					4. REMARKS AND EXCEPTIONS	Γ
34	NAVIGATION					
-44-02	Ground Proximity Warning					l
-01	System (GPWS) (Continued)					
-03	Glideslope Deviation	С	-	1		
	(Mode 5)					
		В	-	0		
-04	Advisory Callout	В	_	0	(O) May be inoperative provided alternate	l
-04	Advisory Callout		_	U	procedures are established and used.	l
		С	-	0	(O) May be inoperative provided:	
					a) Advisory Callouts not required by	
					14 CFR, and	
					<ul> <li>b) Alternate procedures are established and used.</li> </ul>	
					cotabilation and asca.	
-05	Windshear Mode (Reactive)	В	1	0	(O) May be inoperative provided alternate	
***					procedures are established and used.	
					NOTE: Operator's alternate procedures	
					should include reviewing	
					windshear avoidance and	
					windshear recovery procedures.	
					(0	
					(Continued)	
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AIRCRAI		RE	VISI	ON	NO. 4 PAGE NO.			
	LEARJET 45		DATE: 02/20/2013 34-7					
aramp		1. R			CATEGORY			
SYSTEM			2.		MBER INSTALLED			
SEQUEN	CE NUMBERS & ITEM			3.1	NUMBER REQUIRED FOR DISPATCH  4. REMARKS AND EXCEPTIONS			
34	NAVIGATION				T. REWINKIS PHAD EXCELLITORS			
-05 ***	Windshear Mode (Reactive) (Continued)							
		С	1	0	(O) May be inoperative provided:  a) Alternate procedures are established and used, and b) Windshear Detection and Avoidance System (Predictive) operates normally.			
-44-02 -02	Terrain System-Forward Looking Terrain Avoidance (FLTA) And Premature Descent Alert (PDA) Function	В	1	0	(O) May be inoperative provided alternate procedures are established and used.			
-03	Terrain Display	С	-	1				
		В	-	0				
-04 ***	Runway Awareness And Advisory System (RAAS)	С	-	0				
					(Continued)			

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	LEARJET 45				20/2013 34-8
		_			CATEGORY
SYSTEM	•		2.	<u>NUN</u>	MBER INSTALLED
SEQUEN	CE NUMBERS & ITEM			3. I	NUMBER REQUIRED FOR DISPATCH
					4. REMARKS AND EXCEPTIONS
34	NAVIGATION				
-44-02	Terrain Awareness And Warning System (TAWS) (Continued)				
	Class B TAWS Equipment Required				
-44-03 -01	Ground Proximity Warning System (GPWS)	A	1	0	(O) May be inoperative provided:  a) Alternate procedures are established and used, and b) Repairs are made within two (2) flight days.
-01	Modes 1 & 3	A	2	0	(O) May be inoperative provided:  a) Alternate procedures are established and used, and b) Repairs are made within two (2) flight days.
-02	Test Mode	A	1	0	May be inoperative provided:  a) GPWS is considered inoperative, and b) Repairs are made within two (2) flight days.
					(Continued)

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	LEARJET 45				20/2013 34-9	
CMCTEM		1. R			CATEGORY	
SYSTEM	, CE NUMBERS & ITEM		2. ]		MBER INSTALLED NUMBER REQUIRED FOR DISPATCH	
SEQUEN	CE NUMBERS & ITEM			3.1	4. REMARKS AND EXCEPTIONS	
34	NAVIGATION					
-44-03 -01	Ground Proximity Warning System (GPWS) (Continued)					
-01	System (GFWS) (Continued)					I
-03	Modes 2, 4 & 5	С	3	0		
***						
04	Advisony Collout	В		_	(O) May be incorporative provided alternate	
-04	Advisory Callout	Ь	-	0	(O) May be inoperative provided alternate procedures are established and used.	I
		С	-	0	(O) May be inoperative provided:	
					a) Advisory Callouts not required by	
					<ul><li>14 CFR, and</li><li>b) Alternate procedures are</li></ul>	
					established and used.	
-05 ***	Windshear Mode (Reactive)	С	1	0	(O) May be inoperative provided alternate	
					procedures are established and used.	
-02	Terrain System-Forward	В	1	0		Ш
	Looking Terrain Avoidance					
	(FLTA) And Premature					
	Descent Alert (PDA) Functions					
	i dilottorio					
					(Continued)	

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	L AVIATION ADMINISTRA	1			12.62226	_				
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SYSTEM		1. K	1. REPAIR CATEGORY 2. NUMBER INSTALLED							
	, CE NUMBERS & ITEM		۷. ا		NUMBER REQUIRED FOR DISPATCH	$\neg$				
					4. REMARKS AND EXCEPTIONS					
34	NAVIGATION									
	Class B TAWS Equipment Required (Continued)					1				
-44-03 -03 ***	Terrain Display	С	-	0						
-04 ***	Runway Awareness & Advisory System (RAAS)	С	1	0		1				
-44-04	Class C TAWS Equipment					1				
-01 ***	TAWS / GPWS	С	1	0	(O) May be inoperative provided alternate procedures are established and used.	I				
					NOTE: Any Mode that operates normally may be used.					
-45-01	Traffic Alert And Collision Avoidance System (TCAS I)	В	-	0	<ul> <li>(M) May be inoperative provided:</li> <li>a) System is deactivated and secured, and</li> <li>b) Enroute or approach procedures do not require its use.</li> </ul>	1				
					(Continued)					

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FEDER A	L AVIATION ADMINISTRA	TION	J		MASTER MINIMUM EQUIPMENT LIS	Т
AIRCRA				ON	NO. 4 PAGE NO.	
	LEARJET 45	DA	TE:	02/2	20/2013 34-11	
	_	1. R			CATEGORY	
SYSTEM	•		2.		MBER INSTALLED	
SEQUEN	ICE NUMBERS & ITEM			3.1	NUMBER REQUIRED FOR DISPATCH  4. REMARKS AND EXCEPTIONS	
34	NAVIGATION				T. REMINING PHOE PROCESSION	
-45-01	Traffic Alert And Collision Avoidance System (TCAS I) (Continued)					I
		С	-	0	<ul> <li>(M) May be inoperative provided:</li> <li>a) Not required by 14 CFR,</li> <li>b) System is deactivated and secured, and</li> <li>c) Enroute or approach procedures do not require its use.</li> </ul>	
-45-02	Traffic Alert And Collision Avoidance System (TCAS II)	В	-	0	<ul> <li>(M) May be inoperative provided:</li> <li>a) System is deactivated and secured, and</li> <li>b) Enroute or approach procedures do not require its use.</li> </ul>	1
		С	-	0	<ul> <li>(M) May be inoperative provided:</li> <li>a) Not required by 14 CFR,</li> <li>b) System is deactivated and secured, and</li> <li>c) Enroute or approach procedures do not require its use.</li> </ul>	
					(Continued)	

U. S. DE	PARTMENT OF TRANSPORT	ΓΑΤΙ	ON		MASTER MINIMUM EQUIPMENT LIST
	L AVIATION ADMINISTRA				
AIRCRA					NO. 4 PAGE NO.
	LEARJET 45	+			20/2013 34-12
CVCTEM	ī	1. R			CATEGORY ADED INSTALLED
SYSTEM	I, ICE NUMBERS & ITEM		Z		MBER INSTALLED NUMBER REQUIRED FOR DISPATCH
bLQCLI	CE IVONDERS & ITEM			3.1	4. REMARKS AND EXCEPTIONS
34	NAVIGATION				
34	NAVIOATION				
-45-02	Traffic Alert And Collision Avoidance System (TCAS II) (Continued)				
-01	Combined Traffic Alert (TA) And Resolution Advisory (RA) Dual Display System	С	2	1	May be inoperative on the non-flying pilot side provided:  a) TA and RA visual display is operative on the flying pilot side, and b) TA and RA audio function is operative on the flying pilot side.
-02	Resolution Advisory (RA) Display System	С	2	1	May be inoperative on non-flying pilot side.
		С	-	0	<ul> <li>(O) May be inoperative provided:</li> <li>a) Traffic Alert (TA) visual display and audio functions are operative,</li> <li>b) TA ONLY Mode is selected by the crew, and</li> <li>c) Enroute or approach procedures do not require its use.</li> </ul>
-03	Traffic Alert (TA) Display System	С	-	0	<ul> <li>(O) May be inoperative provided:</li> <li>a) RA visual display and audio functions are operative, and</li> <li>b) Enroute or approach procedures do not require its use.</li> </ul>
					(Continued)

U. S. DE	PARTMENT OF TRANSPORT	ΓΑΤΙ	ON		MASTER MINIMUM EQUIPMENT LIS	т
FEDERA	L AVIATION ADMINISTRA	TION	1		MASTER MINIMOWI EQUITMENT LIS	1
AIRCRA					NO. 4 PAGE NO.	
	LEARJET 45	+			20/2013 34-13	
CMCTEN	r	1. R			CATEGORY	
SYSTEM	I, ICE NUMBERS & ITEM		2.		MBER INSTALLED NUMBER REQUIRED FOR DISPATCH	
SEQUEIV	CE NOWIDERS & ITEM			3.1	4. REMARKS AND EXCEPTIONS	
34	NAVIGATION					
-45-02	Traffic Alert And Collision Avoidance System (TCAS II) (Continued)					I
-04	Audio Function	В	1	0	May be inoperative provided enroute or approach procedures do not require use of TCAS.	I
-05 ***	Airspace Selection Function	С	-	0		I
-46-01 ***	Weather Storm Scope	С	-	0		I
-50-01	Area Navigation (RNAV)	D	-	0	As required by 14 CFR.	I
-50-02	Automatic Dependent Surveillance Broadcast (ADS-B) System	D	-	0	May be inoperative provided it is not required by 14 CFR.	
					NOTE: If ADS-B is installed in lieu of or as replacement for 14 CFR required equipment, the repair category in the operator's MEL will be the same as that of the 14 CFR required equipment.	
					(Continued)	

<b>AIRCRA</b>	FT:	RE	VISI	ON	NO. 4 PAGE NO.
	LEARJET 45	DA	TE:	02/2	20/2013 34-14
	_	1. R			CATEGORY
SYSTEM	· ·		2.		MBER INSTALLED
SEQUEN	ICE NUMBERS & ITEM			3.1	NUMBER REQUIRED FOR DISPATCH 4. REMARKS AND EXCEPTIONS
34	NAVIGATION				
-50-02	Automatic Dependent Surveillance Broadcast (ADS-B) System (Continued)				
-01	Cockpit Display And Traffic Information (CDTI)	D	-	0	NOTE: Cockpit Display Traffic of Information (CDTI) display of d from other aircraft systems may used.
-02	CDTI Control Panel	D	-	0	May be inoperative provided:  a) Flight ID can be set, and b) Screen display is acceptable the flight crew.
-03	Data Link Transmitter	D	-	0	NOTE: In some aircraft the Data Link Transmission is an integral par the transponder and relief is provided in that section.
-04	Data Link Receiver	D	-	0	
					(Continued)

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FEDERA	L AVIATION ADMINISTRAT	ΓΙΟΝ	1							
AIRCRA					NO. 4 PAGE NO.					
	LEARJET 45				20/2013 34-15					
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SYSTEM	I, ICE NUMBERS & ITEM		2.		MBER INSTALLED					
SEQUEN	CE NUMBERS & HEM			3. 1	NUMBER REQUIRED FOR DISPATCH  4. REMARKS AND EXCEPTIONS					
34	NAVIGATION				T. REMINISTRA EXCELLIONS					
-50-02	Automatic Dependent Surveillance Broadcast (ADS-B) System (Continued)									
-05	ADS-B Application	D	-	0						
-51-01	Distance Measuring Equipment (DME) System	D	-	-	Any in excess of those required by 14 CFR may be inoperative.					
-51-02	Tactical Air Navigation (TACAN)	D	-	0	As required by 14 CFR.					
-52-01	ATC Transponder And Automatic Altitude Reporting System	В	-	0	May be inoperative provided:  a) Operations do not require its use, and b) Prior to flight, approval is obtained from ATC facilities having jurisdiction over the planned route of flight.					
		D	-	1	Any in excess of those required by 14 CFR may be inoperative.					
					(Continued)					

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AIRCRA				ON	NO. 4 PAGE NO.					
	LEARJET 45				20/2013 34-16					
		1. R	EPA	AIR (	CATEGORY					
SYSTEM			2. NUMBER INSTALLED							
SEQUEN	ICE NUMBERS & ITEM			3. ľ	NUMBER REQUIRED FOR DISPATCH  4. REMARKS AND EXCEPTIONS					
34	NAVIGATION				4. REMARKS AND EACEF HONS					
34	NAVIOATION									
-52-01	ATC Transponder And Automatic Altitude Reporting System (Continued)									
-01	Elementary And Enhanced Downlink Aircraft Reportable Parameters Not Required By 14 CFR	A	-	0	May be inoperative provided:  a) Operations do not require its use, and  b) Repairs are made prior to completion of the next scheduled maintenance visit.					
-02 ***	ADS-B Squitter Transmissions	А	-	0	May be inoperative provided:  a) Operations do not require its use, and b) Repairs are made prior to completion of the next scheduled maintenance visit.					
-53-01	Long Range Navigation (LORAN)	D	-	0	As required by 14 CFR.					
-55-01	Automatic Direction Finder (ADF)	С	-	0	As required by 14 CFR.					
-57-01	Global Positioning System (GPS)	D	-	0	As required by 14 CFR.					
		1	1	1						

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AIRCRA		1		ON	NO. 4 PAGE NO.				
	LEARJET 45	DA	TE:	02/2	20/2013 34-17				
		1. R	. REPAIR CATEGORY						
SYSTEM	, ·		2. NUMBER INSTALLED						
SEQUEN	ICE NUMBERS & ITEM			3. 1	NUMBER REQUIRED FOR DISPATCH				
1					4. REMARKS AND EXCEPTIONS				
34	NAVIGATION								
-60-01 ***	Flight Management System (FMS)	С	-	0	(O) May be inoperative provided operations do not require FMS use.				
-01	Tune Function	С	-	-	May be inoperative provided both RMUs are operative.				
-02	Fuel Planning And Indicating Function	С	-	-	May be inoperative provided fuel quantity indicating systems are operative.				
-60-02 ***	Flight Management System Data Transfer Unit (FMS DTU)	С	1	0					
-60-03	Navigation Management System				Deleted, Revision 4.				
-61-01	Navigation Database	С	-	-	<ul> <li>(O) May be out of currency provided:</li> <li>a) Current Aeronautical Charts are used to verify Navigation Fixes prior to dispatch,</li> <li>b) Procedures are established and used to verify status and suitability of Navigation Facilities used to define route of flight, and</li> <li>c) Approach Navigation Radios are manually tuned and identified.</li> </ul>				

AIRCRA	L AVIATION ADMINISTRAT FT:			ON	NO. 4 PAGE NO.
11110111	LEARJET 45				20/2013 35-1
		1. R	EP/	AIR	CATEGORY
SYSTEM	,		2.		MBER INSTALLED
SEQUEN	CE NUMBERS & ITEM			3.1	NUMBER REQUIRED FOR DISPATCH  4. REMARKS AND EXCEPTIONS
35	OXYGEN				4. REMARKS AND EACEFTIONS
-00-01	Oxygen Temperature Display				Deleted, Revision 4.
-00-02	Oxygen Bottle Pressure Gauge (Mechanical Pressure Gauge)	С	1	0	May be inoperative provided Remote Oxygen Indicator is installed and operative.
-00-03 ***	Remote Oxygen Indicator	D	-	0	May be inoperative provided all other System Indicators are operative and used for servicing.
-00-04	Oxygen System Discharge Indicator (Oxygen Blowout Disc)	С	-	0	(O) May be missing provided there is an adequate supply of oxygen for passengers and crew for the intended flight.
-20-01	Passenger Oxygen System	С	1	0	May be inoperative provided:  a) Aircraft is operated without cabin occupants, and b) Crew oxygen system is operative.
-01	Mask	С	-	0	Individual oxygen masks or dispensers may be inoperative or missing provided associated seats are placarded "DO NOT OCCUPY".
					(Continued)

FEDER A	L AVIATION ADMINISTRA	TION	1		MASTER MINIMUM EQUIPMENT LIST					
AIRCRA	FT:	RE	VISI		NO. 4 PAGE NO.					
	LEARJET 45	<del>                                     </del>			20/2013 35-2					
SYSTEM	Ţ.	1. K	1. REPAIR CATEGORY 2. NUMBER INSTALLED							
	ICE NUMBERS & ITEM				NUMBER REQUIRED FOR DISPATCH					
					4. REMARKS AND EXCEPTIONS					
35	OXYGEN									
-20-01	Passenger Oxygen System (Continued)									
-02	Drop Out Panel	С	-	0	(M) Individual panels may be out of normal position provided:  a) Oxygen masks and drop out panel are removed, and b) Associated seat(s) or lavatory is placarded "DO NOT OCCUPY".					
					NOTE: These conditions are not intended to prohibit lavatory use or inspections by crewmembers.					
-03	Cargo Configuration	D	1	0						
-30-01	Protective Breathing Equipment (PBE)	D	-	-	Any in excess of those required by 14 CFR may be inoperative or removed provided location placarding is removed or obscured.					
-30-02 ***	Portable Oxygen Dispensing Unit	С	-	-	Any in excess of those required by 14 CFR may be inoperative provided:  a) Required distribution of serviceable Bottles is maintained throughout the aircraft, and b) Bottles not properly serviced are replaced, serviced, or removed at the next available maintenance facility.					

U. S. DEPARTMENT OF TRANSPOR	TATI	ON		
				MASTER MINIMUM EQUIPMENT LIST
FEDERAL AVIATION ADMINISTRA	TION	1		
AIRCRAFT:	RE	VISI	ON	NO. 4 PAGE NO.
LEARJET 45	DA'	TE:	02/2	20/2013 36-1
	1. R			CATEGORY
SYSTEM,		2.		MBER INSTALLED
SEQUENCE NUMBERS & ITEM			3. 1	NUMBER REQUIRED FOR DISPATCH
				4. REMARKS AND EXCEPTIONS
36 PNEUMATICS				
-00-01 Bleed Air Control System	С	2	1	(O) One (1) may be inoperative in the OFF
				Position provided:
				a) Emergency Pressurization Valve
				on operative Bleed Air Control
				System must be operative,
				b) Aircraft is operated at 25,000 feet
				MSL or below, and
				c) Aircraft is not operated in known or
				forecast icing conditions.

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AIRCRAFT:			ON	NO. 4 PAGE NO.	
LEARJET 45	DATE: 02/			20/2013 38-1	
	1. R			CATEGORY	
SYSTEM,		2.		MBER INSTALLED	
SEQUENCE NUMBERS & ITEM			3. 1	NUMBER REQUIRED FOR DISPATCH  4. REMARKS AND EXCEPTIONS	_
20 WATED / WASTE	+			4. REMARKS AND LACEI HONS	_
38 WATER / WASTE					
-10-01 Potable Water System	С	-	-	(M) Individual components may be inoperative provided:	
				<ul> <li>a) Associated Components are deactivated or isolated, and</li> <li>b) Associated System Components are verified not to leak.</li> </ul>	
				NOTE: Any portion of the System which operates normally may be used.	
	С	-	-	(M) May be inoperative provided:  a) System is drained, and b) Procedures are established to ensure that System is not serviced.	
-30-01 Lavatory Waste System	С	-	-	<ul> <li>(M) Individual Components may be inoperative provided:</li> <li>a) Associated Components are deactivated or isolated, and</li> <li>b) Associated System Components are verified not to have leaks.</li> </ul>	1
				NOTE: Any portion of the System which operates normally may be used.	

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FEDERA	L AVIATION ADMINISTRAT	ΓΙΟΝ	J		MASTER MINIMUM EQUIPMENT LIST
AIRCRA		1		ON	NO. 4 PAGE NO.
	LEARJET 45	DA	TE:	02/2	20/2013 46-1
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SYSTEM	· ·		2.		MBER INSTALLED
SEQUEN	ICE NUMBERS & ITEM			3.1	NUMBER REQUIRED FOR DISPATCH  4. REMARKS AND EXCEPTIONS
46	INFORMATION SYSTEMS				I. REIWING THE EXCELLIPIONS
-00-01 ***	Electronic Flight Bag System (EFB)				
-01 ***	Class 3 EFB	С	-	-	(O) May be inoperative provided alternate procedures are established and used.
					NOTE: Any function, program or document which operates normally may be used.
		D	-	0	May be inoperative provided procedures do not require its use.
-02 ***	Data Connectivity (Class 2)	С	-	-	(O) May be inoperative provided alternate procedures are established and used.
		D	-	0	May be inoperative provided procedures do not require its use.
					(Continued)

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AIRCRA		RE	VISI	ON	NO. 4 PAGE NO.	
	LEARJET 45				20/2013 46-2	
OX/OWEN		1. R			CATEGORY	
SYSTEM	,		2.		MBER INSTALLED NUMBER REQUIRED FOR DISPATCH	
SEQUEN	ICE NUMBERS & ITEM			3.1	4. REMARKS AND EXCEPTIONS	
46	INFORMATION SYSTEMS				I. REIM HOLD EXCEL TIONS	
-00-01 ***	Electronic Flight Bag Systems (EFBs) (Continued)					I
-03 ***	Power Connection (Class 1 & 2)	С	-	-	(O) May be inoperative provided alternate procedures are established and used.	1
		D	-	0	May be inoperative provided procedures do not require its use.	
-04 ***	Mounting Device (Class 2)	С	-	0	(M)(O) May be inoperative provided:  a) The associated EFB and hardware is secured by an alternate means or removed from the aircraft, and b) Alternate procedures are established and used.	I
		D	-	0	(M) May be inoperative provided:  a) Associated EFB and hardware is secured by an alternate means or removed from the aircraft, and  b) Procedures do not require its use.	

U. S. DEPARTMENT OF TRANSPORTATION							
MASTER MINIMUM EQUIPMENT I							
FEDERAL AVIATION ADMINISTRATION							
AIRCRAFT:	RE	VISI	ON	NO. 4	PAGE NO.		
LEARJET 45	DA	TE:	02/2	20/2013	49-1		
	1. R	EP/	AIR (	CATEGORY			
SYSTEM,		2. ]		MBER INSTALL			
SEQUENCE NUMBERS & ITEM			3. ľ		IRED FOR DISPATCH		
				4. REMARKS	AND EXCEPTIONS		
49 AIRBORNE AUXILIARY							
-00-01 Auxiliary Power Unit (APU)	D	-	0	(M) May be inop	perative provided Auxiliary		
*** (LR-45)				Power Unit (API	J) is deactivated.		

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AIRCRA	F1: LEARJET 45				NO. 4 PAGE NO.	
	LEARJET 45				20/2013 52-1	4
SYSTEM	ŗ	1. K			CATEGORY MBER INSTALLED	-
	CE NUMBERS & ITEM		۷. ا		NUMBER REQUIRED FOR DISPATCH	
SEQUEI (					4. REMARKS AND EXCEPTIONS	٦
52	DOORS					寸
52	DOOKS					
-00-01	Keyable Door Lock	С	_	0	May be inoperative provided the Door	ı
00 01	Reyable Book Look			O	opens and closes normally and can be	1
					secured CLOSED.	
-10-01	Lower Cabin Door Damper	С	2	0	May be inoperative provided:	
	(Gas Strut)				a) Cabin Door is verified to operate	
					normally, and	
					<ul> <li>b) Crewmember assists in Door opening and closing.</li> </ul>	
					opening and closing.	
-10-02	Upper Cabin Door Assist	С	1	0		ı
10 02	Strap		•	J		'
	·					
-10-03	Lower Cabin Door Retract	С	1	0		ı
	Cable					
-30-01	Baggage Compartment Door	С	1	0	May be inoperative provided the Strut does	
	Strut Assembly				not interfere with Door operation.	ļ
	(Locking Arm)					1
-48-01	Tailcone Access Door Cable	С	1	0	May be ineperative provided the Cable	
- <del>4</del> 0-01	Assembly			0	May be inoperative provided the Cable does not interfere with Door operation.	
	, Goornbry				dood not interiore with book operation.	
						'

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AIRCRA		RE	VISI	-	NO. 4 PAGE NO. 52-2
SYSTEM, SEQUENCE NUMBERS & ITEM		1. R		<u>NUN</u>	CATEGORY MBER INSTALLED NUMBER REQUIRED FOR DISPATCH 4. REMARKS AND EXCEPTIONS
-70-01	Cabin / External Door Indicating System				1
-01	"ENTRY DOOR" (CAS Message / CWP Annunciation)	C	1	0	May be displayed, illuminated or inoperative provided:  a) Crewmember visually verifies before each departure that the Entry Door is CLOSED and LATCHED,  b) All Door Latch Visual Indicators provide a SAFE Condition Indication, and c) "FASTEN SEAT BELT" Sign remains ON for the entire flight.
-02	"ENTRY DOOR PIN" (CAS Message)	С	1	0	May be displayed provided:  a) Crewmember visually verifies before each departure that the Entry Door is CLOSED and LATCHED, b) All Door Latch Visual Indicators provide a SAFE Condition Indication, and c) "FASTEN SEAT BELT" Sign remains ON for the entire flight.
-03	"EXTERNAL DOORS" (CAS Message)	C	1	0	May be displayed provided:  a) Crewmember visually verifies prior to every flight two (2) locking pins extend and retract on both Tailcone and Baggage Door with door latch handle operation while door is in the open position, and b) Both doors are CLOSED and LATCHED prior to engine start.

U. S. DEPARTMENT OF TRANSPORTATION									
	MASTER MINIMUM EQUIPMENT LIST								
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AIRCRA	FT:	RE	VISI	ON	NO. 4 PAGE NO.				
	LEARJET 45	DA	TE:	02/2	20/2013 52-3				
arrames 4	-	1. R			CATEGORY				
SYSTEM			2.		MBER INSTALLED				
SEQUEN	ICE NUMBERS & ITEM			3. ľ	NUMBER REQUIRED FOR DISPATCH				
					4. REMARKS AND EXCEPTIONS				
52	DOORS								
-70-01	Cabin / External Door Indicating System (Continued)								
-04	"EMERGENCY EXIT" (CAS Message)	С	1	0	May be displayed provided:  a) Crewmember visually verifies before each departure that the Emergency Exit is closed and LATCHED, and b) "FASTEN SEAT BELT" Sign remains ON for the entire flight.				

U. S. DEPARTMENT OF TRANSPORTATION									
MASTER MINIMUM EQUIPMENT LIST									
FEDERAL AVIATION ADMINISTRA	TION	1							
AIRCRAFT:	RE	VISI	ON :	NO. 4 PAGE NO.					
LEARJET 45	DA'	TE:	02/2	20/2013 73-1					
	1. R	EPA	AIR (	CATEGORY					
SYSTEM,		2. ]	<u>NUN</u>	MBER INSTALLED					
SEQUENCE NUMBERS & ITEM			3. N	NUMBER REQUIRED FOR DISPATCH					
				4. REMARKS AND EXCEPTIONS					
73 ENGINE / FUEL CONTROLS  -31-01 Fuel Flow Indicator	В	2	1	(O) One (1) may be inoperative provided:  a) All other Engine parameters are operative and monitored throughout the flight,  b) Fuel Quantity Indications are OPERATIVE, and c) Weight and performance calculations based on FMS computations are not used.					

U. S. DEPARTMENT OF TRANSPORTATION									
MASTER MINIMUM EQUIPMENT LIST									
FEDERAL AVIATION ADMINISTRA	TION	1							
AIRCRAFT:	RE	VISI	ON	NO. 4 PAGE NO.					
LEARJET 45	DA	TE:	02/2	20/2013 74-1					
	1. R	EPA	AIR (	CATEGORY					
SYSTEM,				MBER INSTALLED					
SEQUENCE NUMBERS & ITEM				NUMBER REQUIRED FOR DISPATCH					
				4. REMARKS AND EXCEPTIONS					
74 IGNITION									
74 IGNITION									
00 04 Jamitan (Mikita (ICN)) FIGAC)	_	4							
-00-01 Igniter (White 'IGN' EICAS)	В	4	2	One (1) may be inoperative on each					
				engine provided take-off in heavy					
				precipitation is prohibited.					
-00-02 Ignition Switch Indicator	С	2	0	May be inoperative provided the					
(Light Function Only)				associated EICAS "IGN" Message is					
				operative.					

U. S. DEPARTMENT OF TRANSPORTATION								
					MASTER MINIMUM EQUIPMENT LIST			
	L AVIATION ADMINISTRAT							
AIRCRAF					NO. 4 PAGE NO.			
	LEARJET 45				20/2013 76-1			
SYSTEM,		1. K			CATEGORY MBER INSTALLED			
,	CE NUMBERS & ITEM		Z. 1		NUMBER REQUIRED FOR DISPATCH			
BEQUEIT				3.1	4. REMARKS AND EXCEPTIONS			
76	ENGINE CONTROLS							
	Start Switch Indicator	С	2	0	May be inoperative provided the			
	(Light Function Only)				associated EICAS "START" indication is     displayed.			
					uispiayeu.			
-00-02	APR System	С	1	0	May be inoperative provided operations			
	•				are conducted in accordance with the AFM			
					(APR OFF) Performance Data.			
-00-03	APR Switch Indicator	С	1	0	May be inoperative provided the			
	(Light Function Only)			U	associated EICAS "APR" Indication is			
	(Light rundlen ethy)				displayed.			
-01-01	Engine Synchronizer System	С	1	0	(M) May be inoperative provided:			
					<ul><li>a) System is selected OFF,</li><li>b) ENG SYNC is deactivated and</li></ul>			
					secured, and			
					c) AFM Limitations are complied with.			

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	MASTER MINIMUM EQUIPMENT LIST								
FEDERAL AVIATION ADMINISTRATION									
AIRCRAFT:		REV	VISI	ON I	NO. 4	PAGE NO.			
LI	EARJET 45				20/2013	77-1			
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SYSTEM,			2. 1		MBER INSTALL		_		
SEQUENCE N	IUMBERS & ITEM			3. N		IRED FOR DISPATCH	_		
					4. REMARKS A	AND EXCEPTIONS	Ц		
77 ENG	SINE INDICATING								
-00-01 Engi	ine Condition Trend	С	2	0					
Mon	itoring (ECTM) System								
-41-01 Engi	ine Vibration Monitor	С	1	0		erative provided Engine			
Syst	em					or System is deactivated	ļ		
					and secured.				

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MASTER MINIMUM EQUIPMENT I							
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AIRCRA				-	NO. 4 PAGE NO.		
	LEARJET 45	_			20/2013 78-1		
SYSTEM	ſ	1. K			CATEGORY MBER INSTALLED		
	ICE NUMBERS & ITEM		2.		NUMBER REQUIRED FOR DISPATCH		
,					4. REMARKS AND EXCEPTIONS		
78	EXHAUST						
-30-01	Thrust Reverser System					1	
-01	3 Deactivation Pins Utilized	A	2	0	<ul> <li>(M) May be inoperative provided: <ul> <li>a) Aircraft has complied with Service Bulletin SB45-78-8 or SB40-78-02,</li> <li>b) Both Thrust Reversers are secured in FORWARD THRUST position utilizing three (3) Deactivation Pins in the specified locations in the note below,</li> <li>c) AFM performance is not predicated on the use of Thrust Reversers, and</li> <li>d) Repairs are made within two (2) flight days.</li> </ul> </li> <li>NOTE: Thrust Reverser Deactivation Pin Fairing Locations: <ul> <li>Outboard (upper and lower) and Inboard, (upper only).</li> </ul> </li> </ul>	1	
-02	4 Deactivation Pins Utilized	С	2	0	<ul> <li>(M) May be inoperative provided:</li> <li>a) Both Thrust Reversers are secured in FORWARD THRUST positions utilizing four (4) deactivation pins, and</li> <li>b) AFM performance is not predicated on the use of Thrust Reversers.</li> </ul>	1	